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Docket/App No.: 2345.2048-003
Title: Susceptibility Gene for Myocardial...
Inventors: Anna Helgadottir

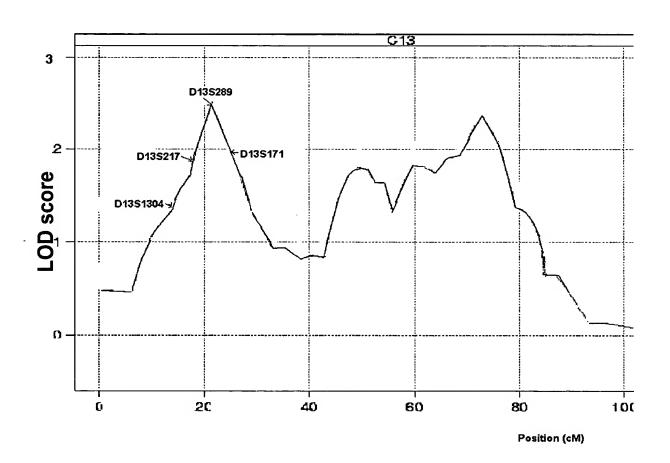


FIG. 1

Docket/App No.: 2345.2048-003 Title: Susceptibility Gene for Myocardial... Inventors: Anna Helgadottir

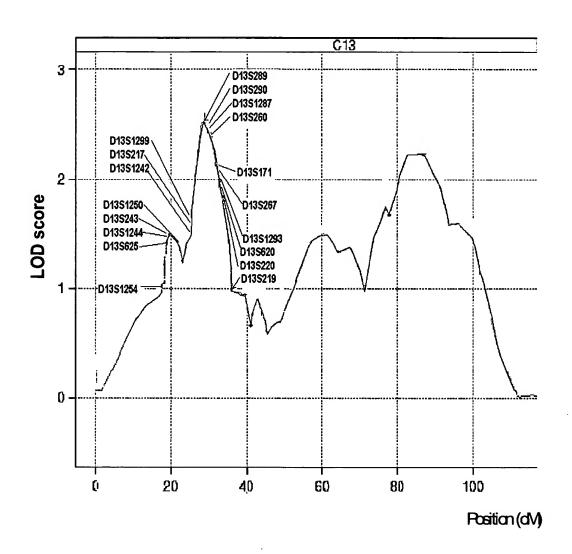


FIG.2

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

## Location of haplotypes showing association (p value< 10<sup>-5</sup>) with the disease

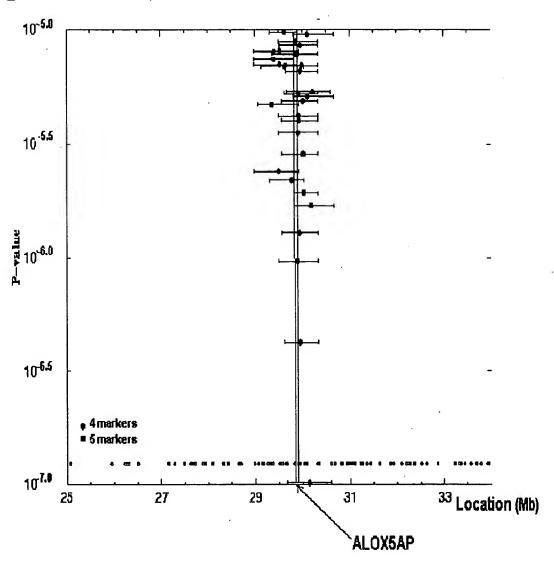


FIG. 3.1

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

## Haplotypes showing association (p value< 10<sup>-5</sup>) with the disease



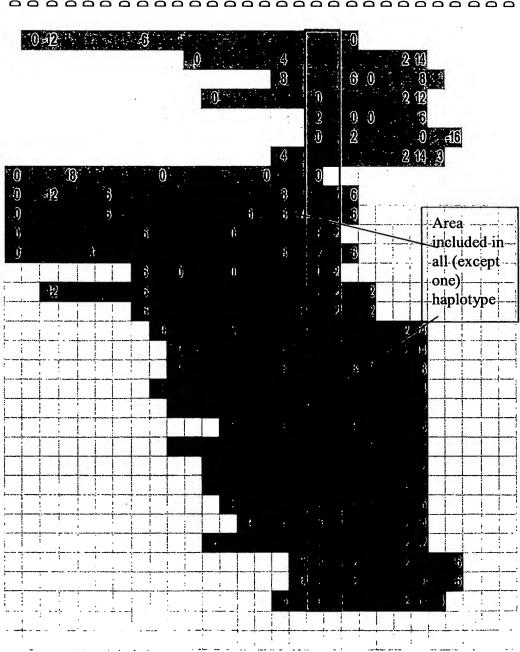


FIG. 3.2

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

# Markers and genes around the FLAP gene

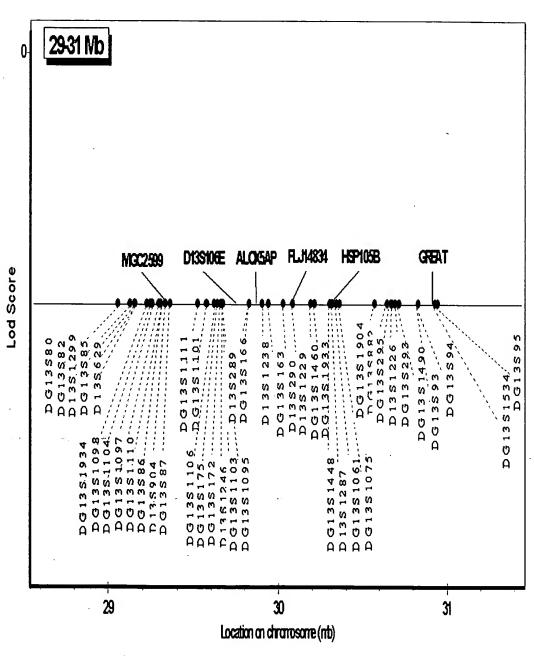


FIG. 4

Docket/App No.: 2345.2048-003 Title: Susceptibility Gene for Myocardial... Inventors: Anna Helgadottir

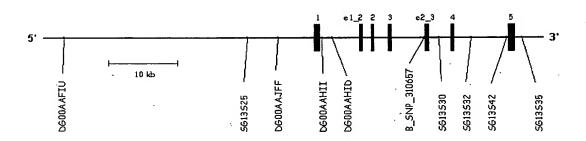


FIG. 5

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

#### ID CHROMOSOME 13: 28932001-29146000BP in NCBI build 34.

#### SQ Sequence 214000 BP

GACTAAGATG AATATGCATT CATTCACCAA AATCTCATAT TCCCAAAAAG CAGGAAAGGT 60 AGTACAGTGA GATGGATGAT GCCTTCACAT GACTCAGATG TCACGTGTTT CTCACCATTG 120 AGACCCCCAA GGCACCCCCT CCCAGCATTT ACCAGAATGT GTGTGTAACT ATTTACAGTG 180 ATTTGTGTAA TTATTTGATT GTTTCTCTTG TATCCTGTAG CAATGAGGGT AGAGATTATA 240 300 TCCCACCTAC CACTGCAGCT CCAGGATCCA GCTTCACAAA CATTTGTTGA ATGAATGAAT 360 AAGAAAAGAG GACACCCCCA AAGAGGCTGC AAGGGAAAAA GCTACAAAGA CAGAAGCACC AGGAAAAAGT AGGGTCATGT AAGTCAAAGC AGGAAAAAAG TTCCATGGTG GGGTGGTCAG 420 CAGTGTCTAA TGCCACGAAG GCACAAAGTA GGATAAAGGT TAAAAATCAG CCTTTGGTTT 480 TGGCAAATAT GAAGCTTATC GGTAGCCTTA GCGAGAACAA TTCCATCAGG GAGCAGAAGC 540 TAACTGCAGT GGGTTGAGTC ATCAAGCAGG CATAAGGAAG TAGGGATACC CCATTATAAG 600 CTACTCTTC AAGAAGCTCA AATCTGAAGG TTAGGAGAAT TAGGTCAGTA GCTAGAAGGA 660 AATGTGGAGT CGAGGGGCTG TTTTTCCTCC CAAGGAGTAT AAAGGTGTAA CGTTGCATGA 720 AACCACTTCA GACAAAGGCC GATATCAATA GAGAAGTTAA AACGCACGCC TCAAGATTTG 780 840 TAAAGAAGAA AGGATAGGTT CCCATGGAGA TAAATTTCTA AGTGTTAAAG AAGAGGCTCA 900 GAAAATTCTA GCATGATAGG CTCACTTTTT TCTTTTTCCA TGAAGGAGAT GGCAAAGTCA 960 ACTGACATGA GAAAGGTGAC AATACTGATG GGTTGAAGAG CGATGGACAT TTGAAATAAC 1020 TTCTTAGACC AGTAGAGGCT GGAGTTCATA AATCAGAACT GGCTACAGGT TATATATGTT 1080 TTTTTTTTT TCTCCAACAG CATAAGATAA CAGAGCGAAG TCTGTAGAAA TGAAAGAAGA 1140 1200 GTCAGATGAG GATAGCTGGA GCTAGTGCAA GGAGGGAAGC ACCACGGTGG GAGCCAGGTA 1260 CCCCTGGAT TTATAATTCA TACTGAATTC CAACAACAGA AGGGCTCTAA GCAGGAGAGT GACAGATTTC AGAAGACTGA GACACATTTG GTAAAAAAAA GTAGGAGGAA AACCTGATTC 1320 TGGAATTAGG GCAGCCAATA GACGGCAGTA TTTTCAGAAA GGAGGGAATG GTCAACAGTG 1380 ACTTTCTAGT CTGGAGCTCA GGAGGAAGAG GCAACTCTAC CTGATGGTAT TAAGATCATG 1440 1500 GAGGTAGCTG AGATCACCTA GCTTGTGTGT GTCAAATGAG AAAAGAAGAA AGAATAGGAG AAGTTCCCCA GGAACACAGA CATTAAGTGG GGCTGTGGTG ACAACACAAG AAGAGAGGCT 1560 TGCAAAGGAG CCTGAGCAGC TGTCATGAGA GAGGTAGGAT GGTGGACTCG GAGAAGAGGC 1620 AGAAGATGTT CTTAAAGGAA GGACACTGCT GCCAAGTAGT CAGCCAATTG GTGACAAAGA 1680 AAGACCCTGT TGCGAGAAAA AAAGTCAGTG AAGTAGTAGG AACGATGACA GATGACACTG 1740 GGTTGAAGAC TGAGGAGAGA GAAGTGTAAG AGTGGAAGCA GAGGGCAGAC CACTCTTCTG 1800 AGACACTGAA GAGGCATAGT TAGAAATAAA GGGGAGTCGC CAGAAAGGAA TTTGTGGCTA 1860 AGCAAGAGGT TTTCTTTAAG ACTGAAATAC ATAAGCATGA TTTAAATGCT GCTGGGATGG 1920 AGTTCACAGA CCTGGAAGAC AGAAGACAAA GCGGATCATC AAGATAGTGG AATTTACTGA 1980 AATGAGAGAG GAAAATCCCA TCCACAGGAA ATGCAGACAT GAGGGAGGGG CCAGAAGGAC 2040 2100 AGTGAAAACA TCAGCAACTG GTCCCCCAAC TTCTGAGTGA ATGTGGAGAT ATAATCAGGT AAAGGACTGC ATCATCTCCC TGGTTAATGA TGGAGTCAGA GAAAAGAGTG TCTTATACAG 2160 AAGTTGTGAT ATACTTGGCC GGGCGCAGTG GCTCACGCCT GTAATCTAAG CACTTTGGGA 2220 2280 GGCCAAGGCA GGCGGATCAC CTGAGGTCAG GAGTTCATGA CTGGCCTGGT CAACATGGCA AAATCCCACC TCTACTAAAA ACAAAAGCCT GTAATCCCAG CTACTAGGGA GGCTGAGGCA 2340 2400 GGAGAATCGC TTGAACCCAG GAGGCAGAGG TTGCAGTGAG CCAAGGTCGC ACCACTGTAC 2460

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

TCTCACTGTA TAAATTTCTG TGTAAGAAAT ACTCTCTCAT ATAGAAGTAA ATTTATATAT 2520 AAAATTATAT AGAACCACTA TAAAATACTC AGGTTTATAA AATTTATATA TAAACTTGTT 2580 GACATATAAA ATTCCATGTA AATGACTATA AAGTACTCTT ATATGAAAAG TATATGAATT 2640 AAATTATATA TCAACTTACT TTTATATTAC AGTATTTTTG TTATACAGAA GTTTATATAG 2700 TGACAATAAA TATTTCTCAA GAACGATTTC ACATAATAGA AGTATAAATT ATCCATTTCC 2760 AATAGTGAAA AAGAAAAGCA GTTCCACACC AGTGACAGGG CTACGAATCT AAGAGGTACA 2820 2880 AAGACTTCAT TCTTAGAGAC ACTGAGGTCA GGGCATGGCC AACACATCTG AAGCTGATAG AATTGGCGCT GGGTTGGTTG GAGACGGTAC GGTATTACTA TTACAATGGC AGACGCTTGG 2940 CCTTGATAAC TAGCCAATCA GGGGGAAAGA TTCTGGTTTC CTCTGTTATT ATCTGAACTA 3000 GTGTGTTCCC AAAGGGTTAA GATGGTTTAT GGAAGGCACA AGATCAGCAA ACCATAAAGG 3060 ATTAGCACTA AGAAGGAAGG AAGTAGACCA AGTGTTAATG GCGATGCCAT GTAAGAGCCA 3120 GGTCTGCGAT GTATGTTCTA CATGGTTTGG GGGGTAAAAA AAATGTCAGC CTCCAGAGCA 3180 CAGGGCTTTA AGCCTCAAGT ACTGTTAACA GTAGAGTTTA CTAGTCTACA GCAGGAATTA 3240 CAACCAGTAA TTCTAAGGCC AATTACTCAG GCAAGTTTTA CTAGAACAAG GAAGCTCTGC 3300 TTCGAGGTCA AATCGATTTC TGCATTTATA GAAGCATCTA GATGTTCTCT GTTCAAACAA 3360 TGGGGTAAAA TCCCCACACA TTTTATTTCT GACAGAGTGT TCCCTATATT GCCTGGCCAG 3420 GAGTGATAAC ATTGCTTGGC TATTATTAAT AAAACATTGC TGTGGCTGGG CGCAGTGGCT 3480 3540 CACACCTGTA ATCCTGGCAC TTTGGGAGGC TGAGGCAGGA GGATCACTTA ACTCCAGGAG TTTGACAGCA GCCTGGGCAA CATAGCAAGA TCCCATCTCT CTAAAAAATT TTAAAATTAG 3600 3660 CTGGGTGTGG TGGCAGACAC CTGTAGTCCC AGCTCCTCAG GAAGCTGAGG TGGGAGGATC ACTTGAGCCC AAGCAGGTTG AGGCTGCAGC GTGCTGTGAC TGTGCCACTG CACTCCAGCC 3720 TGCGCAACAC ACTGAGAGAG ACTCTGTCTC AAAAAAATAC ATCAAATAAA AATTAAAAGC 3780 CCATTTCTTT CTTTTGGTAC ATTACAGCCA TGCACTTCAA AGGCTAGCAC AATTATTTTT 3840 CTGCAGTTCT ATATTTAGAT TCTAGTTAGA AGTAACCTAG GACCTTCATG TTAGAGGTGT 3900 CTTTGGCAAA ACTGTTATGT GAGTGAAACG TTTAATCAAT TGAGGATAAA GATGCCTCAT 3960 TGCTAATGAA GATGTGGTTT AAGGATTTTA TGCACCCAGT TCATTTATTA ACAACTTGTT 4020 TAAGCTTTAT TAGCTGGGTC TCTACTTTAT AACTGTGTTC TTTAATTTAC AAGACAATAA 4080 AAATTAAAAT GGTAAATGGG AAACCTATCT TGCTTTTCAA TAAATAATTT ATTTTAATAA 4140 CTTCGTGGGC ATGGTGGCCA AAACATTTTA GCTGTGAAAA TAATTTCAAT TCATATTTTT 4200 4260 TTGGAATCAA TATTAAAAGG TGATATATTC TCAAATGAAA AGTGGACAAA TGATCAGTTA TAGGACATGA TTAAGAAACT AACCATGAGC CACGTGCAGT GGCTCATGCC TGTAATCCCA 4320 GCACTCTGGG AGGCCGCGGT GAGCGGATTG CTTGAGCCCA GGAGTTCAAG ACCAGGCTGG 4380 4440 GCAACATGGC AAAAACCCGG CTCTACTAAA AATGCAAAAA AAAAAAAAA AAAAAAAATT 4500 TAGCTGGGTT TTGGTGGCTT ATGCCTGCAG TCCCAGCTAC TCGGGAGGCT GACTCGGGAG 4560 GCTGAGGCAC AAGAATCATT TGAACCCAGG AGGCAGAGGT TGCAATGAGC TGAGAATACA CCACTGCACT CCAGCCTGGG CAACAGAGAG AGAGAGACTC AGTCTCAAAA AACAAACAAA 4620 CAAACAAACA AACCGCTGCC CTGTGCTTGG AGAGATCTGT TTACCTTTAC CACTAAAGAC 4680 TGTTGGAAGT AAATTTTAGA AGGTTTATAA TACCTAAAAG TAATCACTTC TGTCTTATGA 4740 AAGGTTCTGC TGAGATTTTT CTATTGTGGC CACTAGTGGC AATATTCCAG AAGTCATATT 4800 4860 TAAAGAATAT CTTTAGTGGA TTCAGCAGTT TTTCAAATAT GTACTTTTAT CTCTCCAACA 4920 TTCATGATTG CAATTTTCA AATTAACCTC ATGATATAAA CAACTGTACT CTATGATGCC TCATAGTACA GAAACTGGAG GCAGAAAGAG AAGTTGAATG TCTAAGAATC GGTAATTCTA 4980 AAACTCAACA TAGACCATTC AGCATTAGTG GTTCTAACAA TCCCACTGCA AAATGAGTTG 5040 ATAATGTGTA ACACTTTAGT GAACTAAAGC ATAAAGAACC ATGGTCTCCT AATGCAGCAA 5100

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ATTAAAACAC ATGATAGCTA CAATTAATGA AGTACATAGT CCTGGCTGGG CACTATGGTA 5160 5220 CGTCCTTTAC ATAGATTATC TCTTAAATTA TTAACCCCGT TTTAGAGATG AGAACATTCG GGCTCAGGAA GGTTATGTAA GTTATATAAA AATCACAAAA TAAGAGACAG AGCTAAGATT 5280 TGAATCCAAG TGTGACCAGG TTCATATCAA GCTTCCATTT TTGAATTTAT ATTAGAGGTC 5340 AATAACTCAC CTTTGTCCTT TTAAAATAAT TTTTGGCTCT GTGACCTACA CAGGCAAGCT 5400 GTTATTTACA AACAACCCAC ACATCTAGAT GGTCACTGTC TCACCGCCCA CTTTTACCAT 5460 CAGGACTCCT AGTGAGCTGT CAAGGGGAAT GCTATAATTT TGGAGGTTCT AAATCTGAGG 5520 GCTTAAGAAA GAAAGAAATT GTAAAAAGCA GGCATTACTC AGGGGCATAG ATTGTCAGGC 5580 AGATCTGTCA TGCTTATAGG TAACCTCCCA GGGCCAAAAA TATATGTGCC CAAACTGCCT 5640 AAATATTTCC TGTCACTTCA TAATACTGCC TGAAATCCTG CCAAATTAGA ACTTCATTTG 5700 TGTTGCTTGT CAATTTTTAA CGCATAAGCA AATCACCTGG AGATCTTGTT AAAATGCAAA 5760 TTCTGATTAG GTTAGGTCTG GGTCTGCATG TCTGATATGC TTCCAGAGGG CACTGATGCT 5820 GCTGGTCCAT GGACCACACT TAAAGAAGCA AAAAAGATGT CTGATATTTA CTCTCTGGCT 5880 GCCTAGGAGT GCTTCTCATT TAAGTGAGAT CTCTTTGTGC ATCATAATGG GAGGGATGAG 5940 CTGAAAAGCA GCAAATTAAG AGTGAGTTAA GTGTCTACCT CACTTCCCTA CTATCTGTAA 6000 CAAGCAGGTT TGGGCACTGT GGTCAACCAG AAAATTCTTT CCAGGACCAC AACCCTTGAG 6060 ATTATGTTGC AAAGATGCAA GGACAACTTA GAAATAATTT CCAGCACTGG TGGCACTGGA 6120 TGTCTGTCAG TGGTGCTGGT GGCAGGGTCC TATTCAGACT GTGGTTTACC TGCCTGGCCC 6180 GTTTGGTTAT GGGCCATTTT CTGAGTACCA TGGAGCATCG CCCAGCTGAC AAGGGCTTGT 6240 ACTCCACCCT TGGTGCGCAG AAGGGAAGCT TGGCTGCTAC TAAGTTTGGT GCAAAGTAAT 6300 TGTGGTTTTG CCATTAATAT TTGATACAGT GAGTCCCTAC TTTCCTCAGG TGAAACTAGA 6360 ACTTAAGGGG ACACGCTCAA GTTCTCATTA TACAGTACTA AGTTTCAAAA ATCAGCAATT 6420 TTATCAAACA CATGCTCTAC AGCAGTGGTC GGCAAACTTT TTCTGTAAGG GGCCAGAGAG 6480 TAAATGTTTT AGAGTTTCTG GGCCACATAT GGTTTCTGTT CCAGCTATAA ACTCTGCCAC 6540 TGTAGGGCAA AAGCAACCCT CCACAATACA TACATGAATA GGTGTGTTCC AAAAAAACTT 6600 TATTTGTGGA CCCTGAAATT TGAATTTCAT AAACTTTTCA TGTGTCATGA AATATTCTTT 6660 TGATTTTTC CCAACCTTTT AAAGATGTAA CAACCATTTT TAGCCTGTAG GCCATATAGA 6720 AACAGGCAGT GGGCTGGGTT TGCTGACCCT TGCTCTGAAG CAATGATATC TCGATCCAAT 6780 6840 TTATACCCAC AAATTTTTCT CCTTGAAACC ATGCATTTAA TTCTCATCTC TTCTTACCAT GACAATAAGA AGTTATTCTA TATAACAAAG AGATTGTACC CACCCAAGCC AGCATTTAGA 6900 6960 TCATGTCATT TGCTTCCTCA AAATTTTGGT CTTTATAAAA ATCAATTAAA GCACCTTAAA AGGTAAGCAG TGATGAAATA TTTGAAATAA TTGGCTAATT AAACATCACC TAAATAGAAA 7020 CTGTGATAAG AACCACAAAT GCGAAAAGGA ATCATGTAGT AACTAATGTG GAGGATATCT 7080 TGGTTTAGAG ATTTGATGAA CACGAGTTTT GATTTAAAAA AATTTGTGCA ATACTCACTG 7140 CTTTGGTGGG GAGCTTGCTA TGCAAGTTGG TAGAAAAATT TATCCTAAAG TCACAGTTCT 7200 CTACCACTCT GGATTTTCTC GAGCTAACTA CCATTCCAAA CTATTTTAGG CACAGTTACT 7260 AGTTTCAAGA ATCAGGCAAA TTGCCCTGGT ATTAGCACTG TTCTTTCTGT GGTCACAAGT 7320 CAAACTACTG TGGTGAATAA AATTAGATGA TTTCTTTAGT CTTTCCTTTT TCAGCCCCTG 7380 TAGTCAATTT CCAGTGCTCC ATTCAAAGAA AAACCAAAAA TGTCCAGAAT ATAACCTTAT 7440 TTTAAAACTT GTTAACCACT GATTTCACTT GTTAACCAAA TTTTTTTTT TTTTTTTTTG 7500 AGAATGAATC TCACTCTGTC ACCAGGCTGG AGTGCAGTGG CATGATCTTG GTTCACTGCA 7560 7620 ACCTCCGCCT CCTGGGTACT GGTTCAAGCA ATTCTCCTGC CTCAGTCTCC CGAGTAGCTG GGATTACAGG TGTGCACCCC CACACCCAGC TAATTTTTTT GTACTTTTAG TAGAGATGGG 7680 GTTTCACCAT GTTGGCCGGG CTAGTCTTAA ACTCCTGACC TCGTGATCCG CCCGCCTCGG 7740

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CCTCCCAAAG TGCTGGGATT GCAGGCATGA ACCACTGCGC CCAGCCTGTT AACCAAATTT 7800 CTAATCACAC ACACTTGAGG CCCAGTAAAT GCCTGCTGAA AAGAGGGTGC TGGTGGTGAG 7860 7920 GCAACTGAGG GGCTAACATA CTGATAGCTG CTGAAATCTT CTACAGCTCT TTCTTGTTAG 7980 AACACTCCAT CACGGCTCCC AGGCCCACAC CACATGAAGG AACTTCTAGC TCTCTTGCTT 8040 GCTCTTTACC CAAATGTAGT TAGCAAGTCC TGGGAACTAA ACAGCATTGA CACACTTGAA GAAGACAATT AGGCAAATCC CAACTGCTGT GCTCCTGCAG CTAAAGATGA AGACTCGTCC 8100 ATTGGGCAGT TGATTAATTG TACCTAGAAA ATTAATTTCA ATGGTCCCAT GACAACATAC 8160 GGGCAGTGAA GCTCTAGTGT TCCCCCTGGG TGGAATCTTC CAGGATGTAT AGTCTCCCAT 8220 ACCAGCTCAT CCTCCCATTT TTCCAGATTC TGGTTCTTCT CTCTTACCTA GTGTGTAGTG 8280 GGCCAAATGG TGGTCCCCCA AAAAGATATG TCCATGTGTT AACCCTGGAA ACTGTGGATG 8340 8400 TAACCTTATT TGGAAAAATG GGGCCAGGTG CAGTGGTGTG CATGTGTAGT CCCAGAACTT TGAGAAGCCA AGGTGGGAGA ATCGTTGGAG CCCAGGAGTT CAAGAACAGC CCAGGCAACA 8460 TATTGAGACC CCCGTCTCTA TAAGCAATAA AAAATTAGCT AGGTGTGGTG GCATGCACCT 8520 GAAGTTCCAG CTACTTGAGA GGCTGAGGCA GAAGGACTGC TCAAGCCCAA GGAGTTCAAG 8580 GCTGCAGTGA GCTATGATCA TGTCACCCCA CTCCAGCCTG GGTGACAGAG TCAGACTCCC 8640 8700 TGTCTCAGGA GAAAAGAAAA AAAGGTCTTT GTAAATGTAA TAAAGAATCT TGAGATAAGA 8760 TCATCCTGAT TTAGGATGGA CCCTAAATCC AATGACATTT GTCCTTACAA AAGAAAGGTA GAGGGAACTG TGAGACAGAC ACAGAGGGGA GGGCCTTGTG AAGCAGGAAG CATAGATGCA 8820 8880 GTTACAAGTC AAGGAATGCC AAGGACTGTC TACAACCAGA AGCCAGGAGA GATGCATGGG ATGATTTCTC CCTCACAGCC TCCAGAACTT CTGGCCTCCA GGACTGTGAA GAATCAATTT 8940 CTGTTGTTTT AAGCCACCAA GTTTGTGTGT CATTTGTTAT GGCAATGGCA GTATTAGGAC 9000 TCTAATACAC AGTATAAAAA AATAAAAATA GGGCCAGGCG TGGTGGCTCA GACCTATAAC 9060 CCCAGCACTT TGGGAGGCTA AGGCGGGGAG ATCACTTGAG GTCAGGAGTT TGAGACCAAC 9120 CAGGCCAACA TGGTGAAACC CCATCTCTAT TAAAAATAAA AATTAGTTGG GCATGGTGGT 9180 GTGCATCTGT AATCCCAGTT ACTCAGGAGG CTGAGGCAGA AGAATCGCTT GAACCCAGGA 9240 9300 AGTGGAGGTT GTAGTGAATG CCACTGCACT CCAGCCTGGG TGACAGAGCT AGACTCCTTC 9360 ATCCTAGGAC ACAGCCAAGT CTTACGTAGC AAAAAGAAGT TGTTAAAGGT CTGTAGTTCT GCATTAAGCA ACACAGGCAT GTACCTATGA ATTATATGAT TATAAAAGTG CTCGGACAGG 9420 CCCATTTCAA ACTTGGCCTC TTTCCACCAA CTGTGTACTG TTTCTCATTC CATAACTAGA 9480 GATTATGTCT TTATATCCTG TCAAAAAAGT GAATTTTTGT GGGCTAAGAC ATTATCCCTG 9540 TGTTAAATGC ACCAGTCTTA GTGTAAACAA GCCTAGTTCC TTTTTCATTT TGGCTGTCTA 9600 GTATGCATTT GTATATGCTA GGCAGTGTAC TAGGCACCTT AAATACATTA CCTTGTTTAA 9660 CCTCTACAGG ATTCTGGGAG GTAGGCATTA TCCCCATTTT ATAGATGAGA ACACTGAGAA 9720 GACAATGTTC ATAAGTGCGT CACTTGTCTG AGATGACATA TTTACTAAGT AGCAGAACCA 9780 GGCCTCGAGC TACTCAGTCT GATTTCCAAA GCCCCTGCTC TTAATCACAT CAACTTCTTT 9840 CCTATATCAC CTTTCCCAGA GTGCGCTCTC ATGGATAAAG AGCAGAAGTA TAAGTTACTA 9900 GGCAGCAGAA AACTGTAGAG GTGGGAAGAT TAGATAAAAA ATGTAAATAA GAAGGCTTTA 9960 AGACACCAAA ATCAAATGTA AATACTTTAT AACCTGAATC AGTGCTTGTG TTCATGAGGC 10020 TAGAGGTCGT GCATTTTATC TCTAGGTCTG GTGATGCCAA TCCTGATCTA CAGCCAGCAG 10080 CAACAGTTCC CTAGCCTGCC TAGAAGTTTG TAAATGCATG GGCTTTGGTA GGAGGAAGAC 10140 GAGAGAAAGC AGAACAGATT ATTACAAACC CAGTGCATTC CCCCTTGATG GGTCAACAGC 10200 GATTTCTTTG TAAGTGAAGG ACAGCACACT GGTTTTGATG ACTCACGAGA GAGTAGGAGG 10260 GAAAAGAAG TCTGAGGCAT TGCCTGGAAG CCTCGCTCTG CTTAAACAAG TACACTAATG 10320 GCTCATGCCT GTTACTCCCA GCACTTTGGA AGGCCAAGAT GGGTGGATCA CTTGAGGCCA 10380

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GGAGTTTAAG CCCAGCCTGG TCAACATAGC GAGACCTTTT CTCTATTAAA AATAAAGAAG 10440 AAAGAAAGTA ATAATGATTC AAGTTCTCAT TCTCTACAAA ATTCACTTAT GACTTTCCAA 10500 ATGCTAGTGA AAACTTTTAG GTATTGCAAA ACTGCCTTAA TGCATAACGG GATTCTCATT 10560 TTACTTAGTC TAAGATGACT TTTTCACTTT GAACTTCTGC ATCTTTATGA TCGCTTAGCT 10620 TTCTGACAAG CAATTTCAGT AAGTGTTTAT CAATTTGCAT CCACACGCTG ACACATAGGG 10680 GTCTACTTAC ATATCCTTCA TGTAATTGAG CTTTTGTAAA TCATCTTTCT ACATGGTACA 10740 CTTCTGATTT TGTGTGCAGC TTTCTTGTTT AAGCACTGTA TTAAATGCTC TGCTTCCTAC 10800 10860 ACCCTTAGGA ACAATGAGAA TAAAAGCGTA ATGTTGGTTA CTTCTTCATA TCAAAGGAAG TTCATCTCCT GGTTATTAAA AGCTATTATT AAATGGCCAT CTTTTTGTGC CCCTGTGTTA 10920 AGCACTCTAC CAAGATACCA TTAAATAGAT AAGGGCCACA CTCCATAGAG ATGATGGTTC 10980 TATATTCTGT ATTTTCTGGG GGAGTTCTAA TTTCATGCAA TTCCTTCTTC TTAAATAAAG 11040 GCAATTCTCT AAATATATTA CCTAATGTGC TTTCACTTTC ATATTCTTGT AAGATTTTTC 11100 ACATAAATCA ATTCTCAAAA AATAGTATCA TAGGCCTTTT AAAAATAGTC ATGTTCAAAA 11160 GTCAGGCTCA TGAATAAATG TGTGCATTCA TTACATATAT TTTCATAAAT TCAAATTTAA 11220 AAGAATAAGA GTAGCTAGAA GGTGGAAGAA AAATCTTATT CTGATTAGGA ATGCACAATC 11280 ACAAGAAAAT TTGTGATATA TATAGTCATT TTATTCTGTA TTGTTTTATT TTGATTTTGG 11340 TAAGACAAGA AACAATGTAG AAAGTTTGAC AACTTAAAAA AGTAATATGA GTGTGAGAAA 11400 GTCCTCTTCC AGGATTAGCA AAAAAATGGT TTTTTTTTT TTTTTTTCCG AGATGGAGTC 11460 TCGCTCTCTC GCCCAGGCTG GAGTGCAGTG GCGCAATCTT GGCTCACTGC AACCTCCGCC 11520 TCCCGGGTTC AGGTGATTCT CTTGCCTCAG CCTCCCAAGT AGCTGGGACT ACAGGCATGT 11580 GCCACCATGC CCGGCTAATT TTTTTTATTT TTAGTAGAGA CGGGGTTTCA CCATGCTGGC 11640 CAGGCTGGTC TTGAACTCCT GACCTTGTGA TCTGCCCGCC TTAGCCTCCC AAAGTGCTGG 11700 11760 GATTACAGGC GTGAGCCACC GTACCCAGCC TAAATGGCCA AGTTTTATTA TGGACAATTA 11820 AGCTGTAGAA TAAAAATCTA CTTTTAATAG CTGGCATAGT GCCTAGTGGT TTTGAAGCCA CAAGCAGGTT TACAAAAAAC ATTTAAATCC ATCTGAATCT ACAGAAAACT AAGATTACCT 11880 AAGCAGAAAA TGAAAATAGT TCAGGATTAA GGAAGATTAA CAAATGAAGA GTATATGTAT 11940 TTTAGAAGTA TTACTTTATA TTTTTATAGT ATAATAATAA TATTTACGTT CCTACACTTA 12000 TAATGAGTTT CGTATATATA TTAAAATAAT TTAATGGATT AGTATGTTTA TATTTGCTTT 12060 TAGTAAATTT GGTGTATGAT AAACTCAGTT GTCTACATTG TGAGACTACA CCTGAGGCAA 12120 TTTCTGTGTT GATATACC TGAATAGCAG ATATTACTTG GGAGCAAATA AAATAGCTTC 12180 AGGCCTAATT TTGCAAGTTC ATGATGGGAG AGTAAGCATG ACTTCAAAGA ACTGACTTTG 12240 AGTTAAAACT TGAAGAATGA ATGTGACAAC AGCAAGTATA AAACAATGCC AGGCAGAGGT 12300 GGGACTGTTC ATGGGTATCA GGGTAAGTGT GTTGATAAAT GCTCAAAGTA GGAAATACCT 12360 TTCTTCCCCC ACACATGTCA GAAAATAACT GCAATAGAAT GCAACGACAT CTCAGAGATA 12420 AAGTGTTCAA CTTAGCTCTC AGAGACCGTT CAGTTACATT TTGTAATGAC ATTGGAATTG 12480 ATTGCATTTT GAAGGCAATT CTAAATGCAA AGTCTTCATT TTGTTGATAG AAGCTGGGTT 12540 12600 ATTTATTATG AAATTTCAAA AATTAAGTAA AATATCTAAT TAGGATTATA CCAGCAAAGG 12660 CAAATTTAGA ATTCAAGACT TCATGATCCA TGGTAAGATT ATTTTAATGC AACTCTGCTA ATTAACTGAA ATTTCCTTTA ACTCTCACAT CTGCCTTTTA CTTCTTAAGA CATTTTTCTA 12720 GTATTTCACC AGAGCAAGAT ATCAGAAGGG TAAATCTCTT ACCAATGAAC TTTGCTAATT 12780 CTTAGTGACT CCGTTGACCC TGGTGTAAGG ATCAGGAACA AAGTGAATGA AATACATTTT 12840 AATACATTTC TGCTTTCTCT AATTCCAAAG ACCACTCTAA AGAATAAGTT ATTTGTGGGT 12900 ATTATCTGAA ACTTGGGATT AAAAGAGACC GTGATTACCC TTCAGGGATT TTGGCAAAAC 12960 TTAAGCCATT TCATCTGAAG AGCAAAGCAA GCCTCCCACA CTCTTGGCTT ATTCTCACAA 13020

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir.

TTATCTAGAT ATCTAGCAAC AAAACTCTTG AGTAGTTTGT TAACTACAGA TGCCAAGGGC 13080 TGACAGTTTC ACTTTCAGTT TTCAGAATAT CTTTTGTTTC AGTGGTGTAA GCACACCATC 13140 AGAATCTCTA CTATTTAAAA TAATTAAGTT ATAATTGTAA CTTCCATTAG ATGTAGTACT 13200 13260 TAAAGGAATC TAGAAGACAC AACTCATTAA TTATAGGAAT TTGACTGCAA ATTCTTCTGG GGGGTCTGAA TTGCAAAGGA GGCATCTTTG TAAGTCAGAC TCAACTCATT ACTCTGTGAT 13320 GCAGGCTCCT CCAAATGGCA GCAGAAACGT ATTACTCTCT AGAAACACTA CAGTAGTGCT 13380 ACAATTTCAG GGTTCTGTAG AGATAAGGAC AAATTGACAG AAACACATTC TTAGAAGGAC 13440 AGTATCATTT AAAATAAAAA TACTGTCATA ATTGTACACC AGGATAGCTT CTCCATAATA 13500 AATTCTTTAT GATTTTCTGA TTTTTAGAAA TCAGAATTGA ACTTTTTAAT GTGAAAAAAA 13560 TGAGAGAATT GTTTCAAAAT AGGACCACAT TTCTGTGTAT AATTTTAAAA GTTTAAAAAT 13620 ATTTGATTAG TAGACTGATA AACTGAAACA TTTTTGATAA GCTTTTCATT ACATACAAAC 13680 CATATAATTT GTAAAAAATT GGAAATTATT CAAAACTTCA CATAACTAAA GTGACCAAAT 13740 AAATACTGGA GAGGAAAGAA AAGGAGTCAA ATGAATCTAG CATTTTCTTT TTTTTTTTT 13800 TTTTGGAGAA AGGGTCTCAC TGTGCCACCC AGGTGGGAGT GCAATGGCAC GATCATGGCT 13860 CACTGCAGCC TCAACTTTAT GGGCTTAGGT GATCCTCCCA CCTCGGCCTC CCAAGTAGCA 13920 GGGACTACAG GCATGCGCCA ACACGTCCAG CTAATTTTTT TGGTATTTTT TGCAGAGACG 13980 AGGTTTCACC AGGTTGCCGT GGCTGATCTG GAACTCCTGG TCTCAAGTGA TCTACCCAAC 14040 TCAGCCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACC GCACCCGGCC TAATCTAGCA 14100 TTTTCTAAAA GGAAGGACCC AGCAGTGAAC GGCAATATCA ATAATCATGT TCAAGACTAT 14160 14220 CAGACATGCA AGCTGGGGAT GAATGGGTGG AAGGGGAAAA TGATGAATAA ATGATGAACA CAAGTATAGA CCCAGTGGAT TTGAGATGCC CAAGATGCCA GTGAGATATT CAAAGTTTAA 14280 CTCAAAAGCC ACTTCCCATA TGAAATCCTG ACAAACACTC CTACGTCCAA CTGGAATTAA 14340 TTTCTCTTCT GGGCTCCCAC AGCACTCTGT ATTTTTCTAA TAGCATAACA CTATTTTGTT 14400 TGTAGATATT TCTCTGATAG CATTACTATC TTTCCTCTTT ATCACAACTG TTTGAAGTTC 14460 TTTTGCCTCT TGCATCCACT GTTGCCCAAT CCCACTGCTG GAAGGCTCAT CTTATTAAGT 14520 TCTGTATTCC TAGTGCTAAC ACACTGTCTA CCATAGATGA TGTTCAATAA ATGGTTGCTA 14580 AATGAATTCT CTTGTGATAA TAGCACTATG GCAACATAAT CGACGGTAAA AATTTCTTCT 14640 CAATGTTTAC TTTTAGCAGA ATGCATTCAT TTATCAACTT TCATTGAGAA TATGCTAATT 14700 TCCATGACCC TGCTAGGAAA TAGGAAAATA AAGATGAATG TAATAAGGTG CTCATTCTAC 14760 TGAAAGTCTT GACTAGTGGA GAATTATGGA TCCAACTTTT CATGAAATGC CTTCAGTGGT 14820 AAGAATTCTC ATATTTGGAA TAAAAAATGT TATGGGTTGT GCCAAGATAC CTACATACTT 14880 14940 CATAATTTTG TAGAGGGCTG TCCTTACTGC AGAAATGTAT ACTACTATAG TCATATGTGG 15000 AAATAAACCA TGCTAGGAAT CCAGGAATCT AGCTTGGTTT ATTTTCCATA CAATGTACTC 15060 TTTGTAATAT GCATATACTA CATAAAAATT CTATTAATGG CCTCGTACTA AAGATGTGTC 15120 TGTTGGGGAA TCAGTTATTC TGTATAATTT TATCTTAATT GATATATTAA AATCTACCAA 15 180 AAATATAAAC TCCGAGTAAA AGTATCTGCA TGGTGTGCAT ATGTTTATTA TTTTAAGTGT 15240 CAGCGTATAC ATTTTCATGC CATAAAGTTA TAAAATGAAA AAATAGTAGC CTTTTATATT 15300 AAGTTCATGC TTATGTAGTT AGTAAAAACA AGAAAGCAAT TAACATACAA ACCATGATGG 15360 TGGTTAAACT TGCTTCAGTT TGTGTTTTTT AAAATTTGAA AGTGAGAAAT ACAGCTCGAA 15420 GTCAGCTCAT ATTTTCAGTA AGTACTGATG AGGATGTACT GGCCCTATTG ACTACGCTGA 15480 CCCCATTAAA ATATTTGTGA GTCTAAAGGT TCATATGACG CTGTTCCTTC ACTCTAGCAA 15540 CAGGCCATAC ATGTCTTACA TAGGGACTCT GTTCAATTCA TTAATACCTC CTGAAGTGCT 15600 CAACATCGTG GTTCATTTAT AGTAGATACT CAATACATAC TCCATTAACT GAATTCTAAG 15660

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ATAAACTGTC TGTTACTGAC AGAAATTTTC ACTTAAGGGA GTCTCCGTGG CTGAAGGCAA TTTTGAAATC CTGTAAAAGA ACCCACTCCT CTCCCCAAGT AATGAAGTTT GTCAGTTTCA 15780 AGCCTGTAAT AAGGTACTGA.CTTAAAATTA ATTTTCTAAT AATACAGTAC TGCTATGTAT 15840 CTAATGTGGG GTTAGTCAAT GATAGGAAAA AAACATAAGA CAGAGTCACA TTTAAAAATG 15900 TGTGCTTAGG TGCATGGTGA CACCTGCCTG TAGTCCAGCT ATTCCAGGGG CTGAGGCAGG 15960 AAGATCCCTT GAGCTCACGA GTTTGAGGCT GCAGTAAGCC ACTGCACTCA GCCTGGGCAA 16020 CAGAGTGAGA CCCTGTCTCT AAAAAAAATT CGTTTTAAGT GTGCTCAGGA CATAACAGGA 16080 GCCGCTGGTA ACATGCCATT TCCACTGTGA ATATGGTAAG GACAGAATCC CTGTCTCTAG 16140 GCCCTCTTCC ACTAGTCAAT CTCATCATCA CCATCAAGGC CAACATTGGT ATTCTCTCCT 16200 CTGAGACAAA GTCTTTGACA TTTTCTATAC TATACTATGT CTTCCTCTCC CCAAATGCAT 16260 ATACAAATAA AATTTGAATG CTTCTTTCTC CATTTAGTGT AATTTTTTTT ATAACATAGA 16320 CCCAATTTTC AAACCCCACA ATGGTGGATT TTATTTGATG TATTGTAAAA AGCGCTGGAT 16380 TGAAGTCAAA TGGCTTGGGA GACCTAAATT CTACTCCTGC CTGTACCATG AAAGAGACAA 16440 ATCCCAAGGC TTTGCAGGGC TTCAGCTTCC TTGTTTGTAG AATAAAGAAT TATAAAATCA 16500 TCTCTTTTGG TCCTACTGGG CAATAAAAAG CTATGATTCT AAGCCTGTTC CCTTTTCTCA 16560 CCTAAGAATA CAAATTTGAT ACAAAGAGGC CGCAGAATGT GTCAAACACT CCCTGTTGCC 16620 TGGAATTCTC TCTTCCTTTG GGTTCAGGGA TAAAGGTATG TTATTTCTTA AGTCTCCCTT 16680 TGCTTTCTTC TGCTTGCCTC GTAAATATTT TTCCATCTTG GCAGTCCTAC ATGTCTTCTC 16740 16800 ACTCTACATG TTTTCCCTAG GTGATGTGAC CCAGCCTGTG GCTTCCACTG CCATCCACAC ACGTCGCTGC CTCTCTCCAC ATCAGCATCG CAACTATCTC CTGGAAGCTT TCCAAGTGCT 16860 16920 GAACTACAGT AACCTCAACC GAACTGCTGT TCATTCACCC CACAGGCTTG CCCCTCCTCT GCATCTTTGT GAGAACCTGA GAGTCATCCT AAACTCCTCC TTCCACCTCA CTCCCCACAT 16980 CAAATCGATT ACCAACTTGT GCTGATTTTA TCTTCAAATA CTCTCCAGAA TTGTCGCTGT 17040 CATGGACTGA ATATTTGTGT TCCCCCAAAT TCATATGTCC TAATCCCTGA TGTGACTGTA 17100 TTTAGAGACG TGACCTCTAA GGAGTAATTA AGGTTCAGTG AGGTCAAAGG TGGAGCCCTG 17160 ATCTGATAGG ATCAGTGTCC TTATAAGAAG AGACTAGAGC TGGGCACAGG GGCTCACACC 17220 TGTAATCCCA GTATTTTGGG AGGCTGAGGT GGGAAGATCA CTCAAGGAGA GGAGTCTGAG 17280 17340 GTGGTACACA CCTGTGGTCC CAGCTCCTCA GGAGGCTGAG GCAGGAGGAT GGCTTGAGCC 17400 CAGGAATTTG AGGCTGCAGC AAGCTATGAT CACACCTCTG CACTCCAGCC TGGGTGACAG 17460 CATGAGACCC AGTCTCTTTA AAAAAAAAAA AAAAAAAGGC CATATATAGC CCAGAAGAGC 17520 17580 GTCCTCACCA AAACCCAATC CTGATAGCAC CTGGAGGACT TCCAGCCTCC AGAGCTGTGA GAAAATTTCT GTTGCTTGCA CCGCCCAGTC TGTGGTATTT TGCTGTGGCA GCCCAAGCTG 17640 ACTCATCAGT GACCTTCTCT CTGTTACCGC AGAGTAGCTC ATCATCCTCT CTTCCCTAGA 17700 GTCCAGCCAC TCTCTCACAT CTACCTACCT AGCAGTATCA CTGTGGGTTA GAGTCAGATC 17760 ACTGCGGATT AAGTCCTCAT TCTGCCACTG CCTGTGTAAA TCTGAGCAAG TTACTTAATC 17820 17880 TCTCTGTGTG TCAGTAACCT CCCTGTGAAA TGAGGCTAAT AATAGCAGGG TTGTTTCAAC AAGGCGATAC ATGCATAATG CTTACAACAC AGCTTGGCAC ATTATAAGCA TTCAACGAAA 17940 AGTGAGCTAC TATTATCTCA TCCGTTATCA GAATAAACCA CCTAAGCCAC AAGGCTGCCC 18000 ACATCATCCT CATGTTTTAA AACACTTCAG TGGGCTCCCC ACCATCAACA GGATAAAGTC 18060 CAAGCTTCCT TAGCATTTCT TAGAGGCTCC ATATGAATCC CCAAGTTCCA CTACAGGAAC 18120 ACAGGTGAAC TTTCCACTCC AACCTCAGGC TCCTTCGTGT CACTCCTCAT CCACATGGAG 18180 GTAAGCAGCA AGAGACTCCG TGCAGTTCCT GGTGGTTCCC TGACCCTCAG GCAGACTCTC 18240 CCCAGCCCTC TGCCTGCAAC GTCCTTGCCC TTTGCTTCCC TTGGCCAGCT CCCATTCATT 18300

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CTCCTTGATT CTGCTTGGAA GTTTCCCTCT CAGGAAGGCT TTATGAACCT TAGTGTAGGT 18360 TATGAACCCA TCTTTGCTCC TTTCATACCT TTTGCAAGCC TTTATTTATT ATGACACTTA 18420 ACCATTATCA TACTGAAGTG ACCTGTTGGT GTGTCTTTGT TCCCCACTAG ACAGAAAACT 18480 CAAGATCAGA GACCAGTTCT TGTTCTTTTT TTTTTTTTT TTTTTTTTT TTGTATCACA 18540 GTGTTTAGCA GCCTGCTATA TGGTAAATGT CAGTAAATGT TCCACAAACT GAATGGAATT 18600 GAGCTCTGGA ATCTAGACCA TCTTTTCCAT ACCCATCACT CCTGTCTTAG TTGAAGTCCT 18660 TATTTCCCAT TTGAAGCAAT GCAAAGGATT TCCTAACTCT AATCTCTCTT TTCTTCACAC 18720 CATCCTTTAA ACAGCCGACA GAATGGTCAT CCTAAAGCAC ATATATCCTA TCTTACATAT 18780 CCTAGATTCG GAACCTCTCT GGGCTTCTCA CCATATAAGA AGAAAGTCTA ACCTCCTTAG 18840 CAAGGTGCAT AGGTCTTCAA TGGGCTCCAC CTCACTTCTC TATATATACC TATACTCTTG 18900 CTACACTAAA CTTCTTTCTT ACTGTTGCTG GAACAAGTTC AACGCTTTCA AACCTCCCTG 18960 ACTITIGCATA TIGCAGTITICAT TICTIGTICAGGA ATGCCCTTCT CTCTTATGCC TIGGGATATTC 19020 TCATTCATTC CATATGACCT ATTTCATAAG TCACTCCTTA ATGAAGCCTT TCTTAGATAT 19080 CCACTGGGGC AATCAGCTGC TTGCTCCTGT TTCCACAGCA CATTGTTCAC ACAGATAGCA 19140 CAGGACTTAC CACAAGTTAT TATAATTTTG TCTGTCTTGC CCATTTGAAT CCAAGGGCAA 19200 GGACGGAATC ATTCTCATCT TTGTATGTCC TGGGAACTAG AACTGTACCT GAGACATAAT 19260 AAACACTTGA TATGTTTGTA ATTTTTAAAT AAGTTAATGA ACGGAATGGC TAGAAAAAGT 19320 GAGAAGAAC TCTGGCTTAC TGTATATCAT ACTGTCATAC TAAAAATATA TACTGAAGAC 19380 AGAATCACAT TATATCATCA CTTTTCACGC TATAGGCCAT GATCCATTAT GAAAAAGAGG 19440 ATAGTAAAAA AATCACAGGG CACAATTTTT GTTTCTGTCA CACACATGTG TACCTGTATA 19500 TTGGACTGGA ATGTAAAACG CATGTTCCAT TGTAGAACGT GGTTTTAAAA GAGGCTTGGA 19560 19620 AAACACTGCA TATGGTCATT TCTTAGTTTA GTACAATTTA TTATTTTCGT AATAACCTCA 19680 GCTATAATAT AAGTCTACCA TGAAGCATTT TGGGGAGATT AAATGAGATG TGAAAAGTAA ATGTGTTAGA TAGACTGAAT TCATATCATA GCTTGCTCTG ATACTTTACA AAACATTTAA 19740 CCTTACCCAC AAGTTTTAGT TTCCTCACTA AAGTCACCCT GAGGACAGTA ATGGGATCTT 19800 CCTCACAGAG TATTGTGAGG AATACATAAG AGAACGTACG TAAATGCCTG GCACTTAGTA 19860 TTTATTCAAT AAATCTTAGC AATGATGATG ATAACAACAT GGTACCTGGC ACATAAGAGA 19920 GTTAAAAATT AGTTTCTTCA GTCAAATGTG CTTACATTGA TAGTTGATAC TAACTGGGGT 19980 TAAAAGGTCA TTGCTGGCAT CTCAGAAAGA TAGATTACAG TGAAATAAAA AATGACTACT 20040 GCTTAAAATG AATGAAGACT TATTTACAAA GTCATGTTCA TCTGGTACAA TAATGAAGTC 20100 GCTCAATTGG GAGAAAATGA CAAATAATAC AAGTGAATAT ACAATCTTAC TTAAGACGAA 20160 AGAAATAGGA CACCAGGCTA ACTATCAGTC TCCTAAACCA CAACTTTATT TCTGATACAA 20220 AGAGACAGTG AGACAATCAG GGCTTCCCTC AAATAAATTA CTTAATCTCT CTTCAATTCA 20280 GTTTTGCATC TGTAAATATA AATAACTACA ATTTCACAGT ATTTCCATTT AAAAAGTTCT 20340 AGTGCAACAT CAGAAACAAG AACTTAGTAG GTGTTCAAAA AGAAATATAA GTTCTGCTTT 20400 GTTAGCCAGC AAATAGTTGC CTGTTTCTAG CCCTCACTTC TTTTCTCCTA AATCCCTATA 20460 TTGCATTTAT TTAACTTAAA GTGCTGGATG TGGCACTACG AGAAAGAAAA AGATATTTGG 20520 20580 TAATCTTGTT AAAATCATTA GACATCCCAG GCTATCTGGA ATCACCTTGG GCTCACAGTT AGACATCAGC TATGGCTTGT TTTATTTAAA AATTCATCCA CTGATGCATG ATAATGGAAT 20640 TCACAGGAGA GCAATTTACC AAAAAAAAGA AATTTATTGA TTTATAATGT GAGATATTAA 20700 TTTAGCCACA AATATTTATT GAGCATCTCC TACATGCCAG GGAATGGACT ATATATGGCA 20760 GGAAAACAGA TACCAATCAT TTATATCAGG CATTTTTTTC TAATAGAAGG ATATTCGCAG 20820 GAGACAATGC ATAGCACCAT GCCTTGCACG TAACAGACAT TTAATAACTA TTAGTTGAAT 20880 AAAATTGGAG ACTAGAATGA TACATAAAGA GGCAAGAAAG AGCAAAGATA AGCCTTTCTG 20940

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AGAATTTCTA TCATGTTTTG CTCAATAGCT TGTCTTTATC CACTGCTTGT ATTTTTCCAT GTAGCTAATC CTCATTGGTC GTTAGAATTG AGACACCCTT TCCTTGAAAT CAGGAGCTAT 21060 AGGAGGCCAT TCTTCCTACT GGGCATTTTC TTTCTGGGAC AGGGTCTCAC TCTGTCACCT 21120 AGGCTGGAGT GCATCATAGC TCACTATAAC CTTGAAGTCC TGGGCTCAAG GAATCCTCTT 21180 GCCAAAGAGG TGGGATTACA GGCATGAGTC ACCATGCCAG CCTATTTGGC ATTTCTACTG 21240 TAGACAAAGC AGACTTACAG CAGTAGGTCT ACCTGCCTAA TACAAAAAGA AAAAAAAGAA 21300 TTTTAACAAA CAAATGAGGG AATCAGATCC AGAAAGTGAT TCTTATAACT TAGATTACTT 21360 AGAGTAGATC TATAATCTGC TCTAGATCCA CTGCATACAG TGGGCCCTTC TTATCATATT 21420 CCATAAATAG CACTTTTCTC AGCCCAGCTT TTGATGATAG CTGAACAGAC TAACAGTTTG 21480 TCTAACAAAG GCTAGAGAAG GGGATAGCAA ATAATGGCCC ACAGGCTGAA TCCTGCCTGC 21540 TGCTCATTTT TGCAAAGTTT TATTAGAATA CGGTCATTTC CACTCATTTT CACACTGTCA 21600 ATGGCTGCTT TTGCGCTACA GCAGCAGAGC TGGGTGGTTG GGGCAGGGGT CACATGGCTA 21660 ACAAAGACTA AAATACTTAT CATCTGACCT TTTACAGAAA GTTTGCTGAT CCTTGGAGTG 21720 TACAAGTATT CTATATTGTT GATTAAGAAC AGAACCACAA GTATTAGAAG TTAGACCAGC 21780 AGGTGGTAAA GCTGATCATC TACTAATATA ATGGAAATTG GGGTTCCCAA TCAGGACTCT 21840 TGCTTTGATA GAAGGCCATC TTAACGAGGA GGGAGACACC TGCAGGCAAA GTCAGAATTT 21900 TCTGCAGGAA AAGTTTTGAG TCCATTTCCC CTTGTGAACA AGTGCTCAGC TATGCATTTC 21960 ATCTTTAGTA ACCATGCTTC TATACCTGGT TCTCCTTGGC AAAGATTTCT TTCTTCAGTA 22020 AGTCTCAAGA CTTTCTGGGA AGGTAGGGAG ATATGGGGGT AAAAGTGTCC CAGGACTTAC 22080 TGAAGGAAGT GTTTTATGAT TATCTGATAG AATCACTGTA TCATGGTAGA GAAGGCAAAC 22140 AGAATATAAT CTGAAAATAG AGGTGAGGGT GAACAAATGG GCACTAAAAG TGAACTCAGC 22200 22260 ATCAGGAAGG TAGCAAAACA AGACATCAGT CAAAGATATG GGGTGATTCA GACCTAAGGA AGATTTAATG TGGGATGTTT CCGTGTGCCA GGAGCTGGAC ACTTAAGCAA GAGGAGATCC 22320 AGGAATGTTG CTAAAACCAT GGCCTCCATA CTTTATTGGA ATTAGCACAA CTTATCCTTG 22380 TTTCTTTCAT TTTGCAATCA AAATCTTTAA AAACACATTA TTTAAAAAATA CATTATTTTA 22440 AAAGCTAGAA TGAAAATTAT GATATCATTT AGGTGGTTTA AAAAACATCC ACCAGCCGGG 22500 CGTGGTGGCT CATGCCTGTA ATCCCAGCAC TTTGGGAGTC CGAGGCGGGC AGATCACGAG 22560 GTCAGGAGAT TGAGACCATC CTGGCTGACA CGGTGAAACC CCGTCTCCAC TAAAAATACA 22620 AAAAATTAAC CGGGCGTGGT GGCGGGTGCC TGTGGTCCCA GCTACTCGGG AGGCTGAGGC 22680 CGGAGAATGG CATGAACCCG GGAGGTGGAG GTTGCAGTGA GCTGAGATCG TGCCACTGCA 22740 CTCCAGCCTG GGTGACAGAG CAAGACTCCA TCTAAAAAAA AAAAACAAAA ACCATCCACC 22800 AAAATGGGAA GAAGTGATGA AAAATTACAG TCCAAGAAGA AGGGCCATAG CTGTTTAAAT 22860 CAATTGGTAT ATTTGTTATC TAATATAACC CCACGTAACG ACAGGTATTT AACAAATGTT 22920 TCTGCTGAAT TTGACGATTC CATTTCCCTT ACATCCCATA TGCAATCCAT CAGCACCCCA 22980 CATCCAACCC ATCAGTACAT CCTGTCAGCA TTGGCTCCCA AATATAACCT AAATCTAACA 23040 23100 CATATCCTAC TATCTCTGCT GCTACAACTT JAGTCTGAAA TCTCATAATC TCCCACTTGT ACTACTGTAG ATGACTCTGA ATGAGTCTTC TTGCTTCCAT TCCACACAGC ATCCATACTG 23160 ATCTATTTT TTTTCAATT TTTTGTAGAG ACGGGGTCTT GCCATGTTGC CCAGGCTGGT 23220 CTTGAACTCC TGGCTTCAAG GGATCCTCCC ACCTCAACCT CCCAAAGTGA TAGGATTTCA 23280 AGTATGAGCC ACTGTGCCTA ACCCTGACTG ATCTTTCTAA GCATAAATCT AATAATGCCC 23340 CTTCCTTGAT TAAACCCTTC AATGAATTCA CATTAAGCAA ACAACCTGGC CAGGTGTGAT 23400 GGTTCATGCC TGTAATCTCA GCACTTTGGG AGACCAAGAT GGGAGGATCA CTTGAGGCCA 23460 GGAGCTCAAC ATCAGCTTAG ACAACATGGT GAAACTACAT CTCTACAAAA AATACAAGAA 23520 TTAGCTGGGC ATGGTGGTGC ACCTATAGTC CCAGCTACTC GGGCGGCTGA GCTGGGAGGA 23580

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TCACTTGAGC CCTGGAGGTC AAGGCAGCAG TGAGCTGTGA TTATGCCACT ACACTTCAGC 23640 23700 GGTGGCTCAC ACCTGTAATC CCATCACTTT GGGAGGCCAA GGCAGGCCTC CTGGATCATG 23760 AGGTCAAGAG ATCGAGACCA TCCTGGCCAA CATGGTGAAA CCCCATCTCT ACTAAAAATA 23820 CAAAAATTAG CTGGGCATGG TGGCATGCAC CTGTAGTCTC AGGTACTTGG GAGGCTGAGG 23880 CAGGAGAATT GCTTGAACCC GGGAGGCGAA GGTTGCAGTG AGCCAAGATT GCCTGGTGAC 23940 24000 24060 AAAGAAGAAA TCCTTAGTCC TGTCTTAACT ACTTGAGAGG CTGAGGGAGG AGGATCACTT GAACCTAGGA ATTTGAGGCT CCAGTGAGCT ATGACAGCAC CACGGTGCTC TGGTCTGGAG 24120 24180 AAGAAGGAAA GGAAAAGAAG AGAGAGAGAG AGAGAGGAAG AAAGGAAGGA AGGAAACAAA 24240 ATAAAATAAA ATAATAAATA AATAAACCCA AATCCAACTT CTTTACCCTA ATCAACAAGG 24300 24360 CTCAAATAAT CTCATGCCAA CTAAGTCTCT GAACAGCTCC TTCCATTCTA TTGCCAGATT ACTCCATCTT TCAGCCACAA GACCTTTTTA TCTTCCTTTT ACCAGCCAAA CACAATCCTA 24420 CCTCAGAACA TGTGCACTTT TTCTTTTCTC TGACTTGAAT CTCCTCCACC CATTATATAA 24480 TCTTAGCTCA AAGAGGCTTT TCTTGACAAC TTAGCGAAAG TATTTATCCC AGTCATTCTC 24540 TGCTACATTA TTCCAATTTA TTTTCTCCAT AGTACATTTC AGCACATAAA GATTTCCTTA 24600 GTATGTGCTT GTTGCCTTTC CCCAACCTCC TAAAATGTCA GCATTCCTTG AGGGCAGAGA 24660 24720 CTGTTCATT CCTGTATCAT CAGCACCTAA GACAGTTCCT GGAACATACC AAGTACTTAA TAAAAATTTG TITATTGACT AGCTATGACA CATTTTACTT ATATAATTTC ATTTTCTCAG 24780 CAAAATGAAC ACTTTGAAAT GTAATTAATT ACTGATTTTT GCAGTATTTT CTAATTATTT 24840 24900 AAATAAAATA TTTACTATTT TGGTCAACCA GAATTCTTAC ATTGTTTTAG CACCCAGATA GCTTCTAAAA ATGCTTACAA TTAACACAAT TTTATCTAGC AATATGTATT TATCACTAGA 24960 CAGAATGCAC TGAACTCTTC TTCATTAATA AAAAGCAATC CAGGCTGGGT GCAGTGGTTC 25020 ACGCCTGTAA TCCTAGCATA GTGGAAGGCC GAGGAGGGAG GATCACTTGA TACCAGGAAT 25080 TCGAGACCAG CCTGGCCAAC ATGGCAAAAC CCCATCTCTA TAAAAAACAC AAAAATTAGC 25140 TGGGTATAAT AGCAGACATC TATAGTCCCA GCTACTCAGG AGGCTGAGAG GTGGGAGGAC 25200 TGCTTGACCC CAGGAGATTG AGGTTGCAGT GAGCCGTGAT TGTGTCACTG CACTCCAGCC 25260 TGGGCTACAG AATGATACCT CATCTA'AAAA AAAAAAAAA TTAGCCAGGC ATGGTGGCAT 25320 GCACCTGTAG TCCCAGCTAC TCAGGAGGCT AAGGTGGGAG GGTCACCTGA GCCTGGAAGG 25380 TAGAGACTGC AGTGAGCCCT GGGTAGCCCG CGCCACTGCA CTCCAGCCCT GAGTGACAGA 25440 25500 TGCATTGCTG AAATGTTAAA TCCATTATAA AGAAAAGTAC AGGGGTGGGC ATGGTGGTTC 25560 ATGCTTGTAA TCCCAGCACT TTGGGAGGCC AAGGTGGGCA GATCACTTAA GGTCAGGAAT 25620 TCAAGAACAG CCTGGCTAAC ACAGTGAAAA ATGCAAAATA CAAAATAAGC CGGGAGTGGT 25680 25740 GGCGCATGCC TGTAATCCCA GCTACTCGGG AGGCTGAGGG GGGAGAATCG CTTGAACCTG GGAGGTGGAG GTTGCAGTCA GCCAAGATCG AACTCCAGCC TGGGTAACAG AGACTCCATC 25800 TCAAAAAAA AAAGTAAAAA GTATATAGTT GATTCTGCAG GGACTTAAAA AAGTATAAAT 25860 ATCTTTTTA ACATCACAAA GCTCTGATAT CTGCAGGTTT ATGACTAACT ACTAGCTCAC 25920 25980 TCCCATGAAT ACACGTATGT AAACAGGCTC TATACAATCT ACAATCCCAG ACTAAGGGGA AAAAACTGTC CTGTCACTGT GGTCTCCAAC CCTTGGCCCA TTTCTTTCCT CTTGACCACA 26040 26100 AAACTTCTCA GGAGTTGCTT GTTTCCTCTT GATCCACTTA TCTTTAGCCC ACTCCAATCT 26160 GGCATCGGTT CTCAGTACTC TCCACTAAAA CTGCTTTTAT GAAGGCCATC AATGACGTTC ATGCTGCCAA ATCCAGCAGA CACCTCCTGT TTTCTAATTT TTTTTATTGT TATTTTTAA

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GAGACTGGGT CTTGCTCTGT CACCCAGGCT GGAATGCAGT GATGCCATCA TAGCTCACTG 26280 CAGCCTTAAC CTCCCTGAGT TCAAGAGATC CTTCTACCTC AGCTGGGACT ACAGGCATGC 26340 ACAGCTATGC CTGGCTAATT ACTCAATCTT TAACATAGCT GATAATTCCC TCCTTGAAAC 26400 ACTOTOAACT TITAAGAAAC COTGTTATTT TOOTOOTACA TITTTAGCCA GTTOTTOTAT 26460 26520 CAGCTTCTCC TTATCTGACC TCTAAATGTT AAGAACATTA ACAAAGACTG AACCTAGTTT TTTTCTCCCC TTACTGTACT GCTCCTGGGC GATGTCAATC AGTCCCATTG CTTTAGATAC 26580 26640 TTGAGATGGA GTTTCGCTCT GTTGCCCAGG CTGGAGTGCA GTGGTGCAAT CTCGGCTCAC 26700 26760 TGCAAGTTCC ACCTCCTGGG CTCAAGCAAT TTTCCTGCCT CAGTCTCCCG AGTACTGGGA TTACAGGTGT GTGCCACCAT ACCCAGCTAA TTTTTCTATT TTAGTAGAGA TGGGGTTTCA 26820 CCATGTGTCC AGGCTGGTCT TAAACTCCTG ACCTCAGGTG ATCTGCCCAC CTTGGCCTCC 26880 CAAAGGTTGG GAAAAGATAT CCCAATCTTT TTCCTATGAT TTCTTAATTG ATCTACTTGA 26940 CATATCCACT TGGACTTTTA ATAGGCATCT CAAACTTAAT GTGTTCAAAA TAAACCTCGT 27000 GACTITCCCT CCCAAACCTG TCCCTACCTC CCTCAATAAC TAATATTATC ATTCTTATAT 27060 TCATATATTG AATAAATGTT TGTTCCCCCA AGTATTTGTT GCTATAAATT TATGAAGAAT 27120 TCTTTTCTCA CTAGTTATTA TAATTAAAAT GTAATATTTA TTTTCTTTAA AAACTTTACT TTGTAGGATT ATTATTTTT AAACAGGGAC CAACAATAAA TAACTTCTCT ACTTGATTAA AACTAGGGCT TCCTCTTGTG CTCCCTCAGG ACTATTTCTT TGTAAAAACA ATAGGCTAAA 27300 TCAGTACTGG TGTCAAAGAA ATCATAATCT CACAACTTTA TAAATACAGC ATGTGGCAAG 27360 GGATTTTCCC ATCTTATATA GTAATAAAAT TTTCAGCTGT GCCATGGCTA AAAGTTTACC' 27420 ATCAAAGTTG GAATTTTAAA TTAGAGGTAG TCATCTTTCT TTCTTTTTAA AGAAATGGAG 27480 TCTCACTATG TTGCCCAGGC TGGAGTGCAG TGGCTATTTG CAGGCATGAC CACAGCACGC 27540 TACAGCATCC TGGCCTCAAG CAATTCTCCT GCCTCAGCTT GCCAAGTAGC TGGGACTACA 27600 GGTCCCTGCC ACCACACCA GCAGAAATAT TTAGCTTTCT GAATTTCTCA AGTGTGTGTA 27660 TGAATGAGAC TAGTGGGGTC CTTAACCAAG ATTCACAGGA TTTTTAGTGA TTTATTAAAT 27720 AACTTGGATT TGTATCTACC AGCATGTTCT TTGAGGTACA GGTATGTCTT TTATATCTCC 27780 TAATATAGTT CATTACAATG CTAAATACTA AGATGTGATG CTCACACACT ACAGAATAGC 27840 CAAGCAAATG AACTACTTAT TCTCATAGGG CTATTATAAT TAACAAATTC TTGTATCACC 27900 CCATCATTAT CAACAACAAC ATGATAGGAT TTCCTTTTAT CTTGAAGAGT CTGGAAAAAG 27960 GGTAACAGAG AGATATTTCT GAGGAACAAA CTGGTAATGA GGGAGCTACT GTGTCCATTA 28020 CAATACTCCT TCTAGAAGCT CAATACATAA TGACTAATCT CTGGAAAAAA GCAAGTGTGA 28080 28140 GAATGGAAGG CTCTTCTTCA AACTATGCAA AATGAATCAA TCAGCAGTGA ACAAATTTAT GAGCCAAACA AATTCCTACA AAAATTACCA TCATATGCTG TCATGCATGT CTGCCAGTCT 28200 ATTTATCATA TTATTTAAGA AACAAACATT TATTGAAGAT TTATCATGTG CTCAGCACTG 28260 CCAAAGAGGA AATAAAGAGC ATAATATCTA TTCTTAGAAA ATAACATTAA CACAAATAGA 28320 AAACAAGAAA CCATAATGTT AAAAATATTA CATAGTAACA CAGAAAGACA ATGTATAATT 28380 ATACATACGC ACTAAAGCAA AGATAACATA ATTTATAAAT TATGAGGTAC AGAATAGTTA 28440 GATTCTGAAA ATTAAAATAA TCAGGAAAAA CTTCATGAAG ATGAGATCTG GGCTGGATCC 28500 CAAAGGATAG GCAGGTGGAT CATGTAGAAC AGGGGAAAGG AGTTCCTGAT CGGGGATACA 28560 28620 ATATATGTAA AAACTCGGAG ACAGGACTGA GCGTGAAATG TTAATGGGAC AGTAAAGAAA 28680 TCTTCCTCTG CAGCGGGGGA AAAAACAGAA TAATGGGAAA CTGCATGGTT AAAAGGTTTG ATGTTAAGAT AGTGCTTGGA CACAAAAGAT CTTAAAGTTG AGTCAAAAGA GTACAATGAA 28740 AGCATTAGAA ATAGAAGATA AAACACAATT AGGCCGGGTG CAGCGGCTCA TGCCTGTAAT 28800 CCCAGCACTT TGGGAGGCCA AGGTGGGTAG ATCACTTGAG GTCAAGAGTT TGAGACCAGC 28860

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CTGGCCAÁCA TGGTGAAACC CCGTCTCTAC TAAAAATACA GAAATTAGCC GTGAATGATG GCTCGTGCCT GTAGTCCCAG CTATTTGGGA GGCTGAGGCA GGAGACTCGC TTGAATCTGG 28980 GAGGCGAGG TTGCAGTGAG CCGACATCGC GCCACTGCAC TCCAGCCTGG GTGACAGAGC 29040 AAGCCTCTGT TTAAAAAAAA ACGGTAAAAA TAAATAACAT TTACTATTGT TTTCTGATGA TATATATGGC CTCTAATTGT AAAGCTGAAT GCCTAGTTTA CCACTTTTTT TTTTTTTTG AGACGGAGTC TTGCTCTTGT TGCCCAGGCT GGAGGGCAAT GGCACGATCT TGGCTCACCA 29220 CAACCTCTGT CTCCCAGGTT TAAGCGATTC TCCAGCCTCA GCCTCCCGAG TAGCTGGGAT 29280 TACAGGCATG-TGCCATCATG CTCAGCTAAT TTTGTATTTT TAGTAGAGAT GGGGTTTCTC 29340 CATGTTGGTC AGGCTGGTCT CAAACTCCCA ACCTCAGGTG ATCCACCCGC CTCAGCCTCC 29400 29460 CAAAGGGCTG GGATTACAGG CGTGAACCAC CGCGCCCGGC CTATCATTCT TATTTTATGC ATTAGGAAAC TAAGGCTCAA CAAGATTAAA GCTGTCTAGG GTCACAAAGA TTGTAAGTGG 29520 AGGGGCTAGA ATTCAAAATG AGACCTGCTT GACTCCTAAG CCTGTACCAT TTCTACTATA 29580 29640 TTTAGAGTGA AGTAGATGGG TTGAAGAAAT ATTTAGGAGG TGAAATTTCA AAAGTGTACA GTCAGAAGAG AAGACATATA TGGAAACCTA AATTTTCACA CAGTAAAGTG TCAATAATAA 29700 AGGCATAATG CCAAAATGAC AGAGGCTGTG CATGGTGGCT CATGCCTGTA ATCCCAGCAC 29760 TCTGGGAGGC TGAGGCAGGA AGATCACTTG AGCCCAGGAG TTTGACACCA ACCTGGCCAA 29820 29880 CACAGCGAAA CCCCATCTCT ACTAAAAATA CAAAAAATTA GCTGGTAATG GTGGTACACA CCTGTAATCC CAGCTACTCA GGAGGCTGAG GCATTAGAGT CACTTGAACC TGGGAGGCAG 29940 AGGTTGCCAT GAGCCAAGAT TGTGCCACTG CACTCTAGCC TGGGCAACAG AGTGAGACTC 30000 TGTCTCAAAA AAAAAAAAG GAAGACTCGA GGGCTAGAAC CCTGAAATTG GGAATGAACA 30060 GGACTGGCTG AAAATGTTTC TTGCACCTGA TAAAAATCTT GAAGAAGAAT GCTTTAAATA 30120 GATAAGAAAG GAGAGAGAGA GGTGGGCAGT GAGAGGAGAC CACCCTAAGT AATCAGAGAT 30180 TACTTACGTT GGTTACTCAG GCTGGTCTCT GAATCTGATT ATAAATGAAA TAGAGATTAC 30240 TTAAAACAAA GGGCTGTAAG GTAGCACTGT CCAGCAGCAC TTTCTATGAT GGAAATCTTC 30300 TATATCTGCA CTGTCCAATA AGGTGTAGCT GCTAGCACAT GTGGCCACTG AGTACTTAGA 30360 30420 ATATAGCTAC GACAACCGAG AGGCTGAATT TTAAATTTAA TTTAATGAAT TCAAACAAAT GACTGGGTTA TGAGACTGGC TAATTTTTGT ATTTTTGGTA GAGACGGCGT TTCACCATGT 30540 TGCCCAAGTT AGTCTCAAAC TCCCGGGCTC AAGTGATCCA CCTGCCTTGG CCTCCCCGCA 30600 AAGTGCTGAG AATACAGGTG TGAGTCACCA CGCCCGGCCT AAACTTAAAT TTAAATAGCC 30660 ACGTGCGGGT AGTGGCTACC ATACTGCACA TGCAACTGTA AGATGTAGAA GTCAGATGTG 30720 AGCAAAGAAA TGACAAGCCG TTCAATGCTG TTAGAGAATG AAATTCAAGG TTCCAATGAT 30780 CTGAACTTGT GTCCCCTCAA ATTCGTATGT TGAAATCTTA ATCCTCAATG CAACAGTATT 30840 AAGAATTTGG GGCTTTAGGA GGTAATTTGG TTTTGAGGGT GGAGCCCTCA TGAATAGGAT 30900 GAGCACCTGA GGTAGCCTCT TTGACCCTTC CACCATGTGA GGACACACCA CGAAGGCACC 30960 ATGTTGGAAG CAGAGAGTGA GCACTCCCAA GACACTGAAT CTGCCACATC TTGATTTTGG 31020 GCTTCTCAGC CTACAGAACT GTGAGCAATA AATATCTGCT GTTTATAAAT TATCCAGTGT 31080 AAAGTATTTT GTTATAGCAG CCTGAATAGA CTAAGACAAA GGTGGACTAA GGCAGGATAA 31140 CAGGTTAGAA AAGGAGGCAG GGCCTTTTT TTTTTTTTT TTTTTTTGAG ACAAAGCCTC 31200 ACTCTCACCC AGGCTGGAGT GCAATGGCAT GATCTTGGCT CACTGCAACC TCCACCTCCA 31260 GGGTTCAAGC AATTCTCCTG TCTCAGCCTC CCAAGTAGCT GGGATTACAG GTGTGCACCA 31320 TCACACCCAG CTAATCTTTT GTATTTTTAG TAGAGACGGG GTTTCACTAT GTTGGCCAGG 31380 CTAGTCTTGA ACTCTTGACC TTAAATGATC CACCCGCCTC GGCCTCCCAA AGTGCTGGGA 31440 TTACAGGTGT GAACCATCGC GCCTGGCCGA GGCACAGTGT TTTTACAGAG AAGCCTGTTT 31500

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

AAGGTTTAAT CATATAAAAT GTATGATATC CAGTAAGTTT TGATATAAAA AAGAAACACC 31560 TGGCGATTTT ATATATATA TTGTGCTAAG GAATTTTAAG CACTCTACAT TCTGCTCTCT 31620 AAGCTCTGTA AAGAGCACCA GGGATTTTTT TTTTTTTTT CTTTTTGAAC AGGGTCTTGC 31680 TCTGTCAGCC AGGCTGGAGT GCAGTGGCAC AATCTTGGCT CACTGCAACC TCTGCCTCTC 31740 GGGCTCAGCG ATTCTCCCAC CTCAGCCTCC TGAGTGGTTG GGACCACAGG CGCATGCCAC 31800 TACATCTGGC TAATTTTTTG TAGAGATGGG GTTTTGCCAT GTTGCCCAGG CTGGTCTTTA 31860 ACTCCTGGGC TCAAGCGATC CTCCCACCTT GGCCTACCAC GCATGCCTGG CCACAACAGG 31920 GATTTTTAAA TGTAAGACTA CCTAGTCAAC TCTTATTCTA TATTAACAAT ATAGACAAGA 31980 AATAACCTCT AAGTAATCTC TATTTCATTT ATAATCAGAT TCAGAGGTTC TCTTATGCTT 32040 TACAATATTG TCCTACTGTG GGTAGCGCAA TAACTAAGGT AATCTGAAAG ACCAGTTATA 32100 TTATATACTA TAGTTAAATG CATTTCAACT GCATGGGAGA AAGCAACTGT GTTCTTTCCT 32160 CTCAATTTTA ACAGAAGGAA AATTGTCAAA ATTAGCTTAT TTAGAATGTC CTATCAGAGA 32220 ATTATTTTGA TTAAAATATA TTTTTAATCA ATAAAATATT TCTCTTTGGT CAATACTTGT 32280 CAATATAGAA TAATATCTAG CCACAAAATT AAAAAAAAA CATTTTCCCC TATATTACAT 32340 TCATGGATCT TCTTGAATTT CTGTTATCTA GGTGCTTTTA AAAGTCATAT TTCTGATAAT 32400 32460 ATGAAATCAC AGCTCCTTTT CTTTGGCATA TTTAGTTACT GTATTAAGAA AATGTACAAC ACATAATTTA GAATGGGTAA TTATTATATT CTCTTTATTC TTATATTGAA AATGACATGA 32520 AAATTACCAG TCTTCCCAGG TAATATAATT TAAGTTAAAG AACATCTACA TACTACAACC 32580 AATACCCATT CCCCTATGTT ATGTTTGGAA AAACATAGAA GTATCTTTAG TAGTACTCTT 32640 AGAAATTATC CCAGGTTCAG CATATTGGTA TTTTATTTCC AGGTTTAAGT TACAGTATTT 32700 TGGGCACCC AAGTTTAATA AACTATTCCC TGCAGAAACC TGACAAGTGA AGTTGTGGCT 32760 GGGAATATGT TAGTCTTCAG ATAAAATGAA TTGTTTAAGA ATTTGCTAAA GATCTCAAAG 32820 CATCTTTCTT AAATCTAAAG AAAGTCAGGA ACAAAGCCAC AACCAGGACC ATAGCATCAG 32880 AAGATGGAAA GTTGCTTTGT CTTCAAACTT AAAAAACATT TTCCATTTTA AAATAATTTT 32940 ACTATTTACC TGTGATACTG TTGAAAATTA TGAAAAAACA GATAATTTAA AATTTAGTGC 33000 TTTTTTTAA AAAAAAAAA AAAGCGAATC CCTGGGACAC TTCATATAGT GCAAAACAAC 33060 AATTCAAGAA TTCAAGCATT GAAAGAAATA ATCTCTTATC CCCCAGTCTC TGAAAGGGAT 33120 33180 TGCCTTTACT ACTGTTCCCA TCTTTATGTC CATATGTACC TAAGGCTTAT CTCCCACTTA CAAGTGAGAA ACTATTCAGT ATGGCTTAGT CATTTTTAAT GCAAGAGAAT AGGTAAAAAT 33240 GCCAAGCACC AGCCAGAGTT TTTTCTTTGC AGATAGATGT GACTCTTACA GGAGCAGCAG 33300 33360 GGATTTCCCA CTTTGGGCGG AAAGCAGCAT TTAGGTATTC CCCCTCCAGT GCAGTTACAG 33420 ACCACCCCC CGTAGAAGCT GCTCCTGTCC TCTGTGGCAT GTCAGCCTCT GATTATCTTT TAATAAACAA TATGGCATAT TAAGTCTCTT TTATGCCCTT CTTTGTATTC CCAGGTACCA 33480 CCTCCATGTC AGGATAACAA GAATTTGGTA ATGTTTGTTG AATAAATTTA GCAGAAGTTG 33540 AAAGAAAAAT CCTGTTTCTA CAGAAAGATA CCACTGGCTT TTGGGGAGCC CGAGTTCATG 33600 ATGAAACTAA AGAAAGCCAC AAAAGTTCAC CTCAATGCCA AGACATTTCT TGATTTTTGA 33660 AAACCCAGTT GTCGAACCAC CCATCTATAG AAACTTGAAA GACTAAAAAC TATCTTACTC 33720 TAAACATTTT CTAGGAAGTT GATTCTACAA CACATTTTGG TTTTCCAATT TGGCTTCTAA 33780 TAATTATTTC AAAGTTTCTG TGGCCTAAAT TTTGTTTTAC ATTGATCCTT TGAATGGACT 33840 ACTGTTTCCA CATTTTAGAA CATTTAAAAA GATATCTACA ACCCGAGTCT AATCATAAAA 33900 33960 AAAATCAGAC AGATCCAAAA TGTGGAACAT TCCACTAAAA AAGGAGTGGG GAGAGGTCTT 34020 TATTCTTCCA AAAATATCAA TGCCATAAAA GACAAAGACG GCTATGGAAA TGTTACAGAT TGAAGGAGAC TAAAGTTAAA TGCAAGAAAG GAAAAAATGG CATATAGGAC AGTATTGAAT 34080 TGACTGACAA AACTGGATTA CAATAGTAGA GTATCAATGT TAAACTTGCT GAAGTTGCTA 34140

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ACTGTATTTC TTAGGAATTA TTCACCTAAG AATTTAGGCA CACAGATATG ATGTATGTAA 34200 GTTACCCTTA AATGGCTTAG AAAAAAATGT GTGTATATTC ATTTACATAC GTATCTACAC 34260 ACACGTGTAT TAGCGGAAGA GAGCAAGGCA CACATGTGCA TAAGTGATAA AGCAAATGAG 34320 ATGAAATCTT TATTTTTAAA TTTAATTTTG TAAGTTTCAG CTTTTTAAAA TTTTAGATTC 34380 CGGGGATACA CGTGCAGTTA TTACTTGGGT ATATTGTGTG AAGCTGAGGT TTGGACCTCT 34440 AATGTTCCTG TTGCCACAAC AGTGAACACA GTACCCAGCA CGCAGTTTTT CAGCCCTTGC 34500 CCCCTCCCTC CCGCTCTCCC TCCTTGCTTT TGGAGTTCCC AGTGTCTACT GTTCCCATCT 34560 TTATGTCCAT GTGTACCCAA GACTTATCTC CCACTTACAA GTGAGAGCAT GCAGTATTTA 34620 34680 GTTTTCTTGT TCTGCGTTAG TTCCGTTAGG ATAATTGCCT CCAGTTACAT TCATGTCACT GCAAAGGATT TGATTTCATT CTTTTTAATG GCTGTGTAGT ATTCCATGTT GTATAGGTAA 34740 34800 CACATTTTCT TTATCCACTC ATCAATTAAT GGGCACTTAC ATTGATTTCA TGTGTTTGCT ATTGTGAACG GTGCTGCAAT GAACATCTGA GCGCAGGTGT CTTTCTGGCA GAATGATTTA 34860 TTTTCCTGTG GGTATATACC CAGTAATGGG ATTGCTAGCT CAGATAAGTA TTTCTATTTT 34920 TAGTTGCTCT CCACAGGGGT AGAACTAATT TGCATTCCCA CCAACGGCGT GTAAGTGTTC 34980 CCTTTTCTCC ACGCCTCGC CAACATACGT TCTTTTCTGA TTTTTAATAG TAGCCATTTT 35040 35100 GAACTGGTAA GAGATGGTGT CTCATTGTAG TTTGGCTTTG CATCCAAATG AGACAAAATC TTAATGACAG GTGAATCTAG GTAAAAGGCA TACAGACGTT CTTTGTGTTG TTTTTTTAAC 35160 TTACATTTGA AGTTATTTTC AAATGAAAAA TAAAAGCAAG CAAAAAAAGG TCATTCTTCA 35220 TCTAGTAAAC TCTTCAAAGA TTACCACCCC CTTCAACAGT TTTTCCTGGT TCTAGTGAGT 35280 CTTCTCCCAT TTGTTTAGAT CTTTGTTGAA ATGTAGTCTC AGATAAAAAA TTGTATTTTT 35340 ATTTCTTTTA CATATTTCAA ACAATCTAAA TTCTTTTTAA ATGAAACTCA TTAAAAAATAC 35400 TGCATTTGTT TCTAAATAAA ATGGTAGAGG TAATTTGCAC CTTTCCAAAC AGAAGCAATA 35460 GGAGCAACCC AGATGTTCTA GCCACGATCC AAGTCAACCA CATTCAATCT AAGAAGTAAT 35520 TGAAGGCTGT AACGACTTCT GTAAGGCCTA CAAAAATGAG TTCAGACACA AGCTCTGCTC 35580 AGTAAAAATC TAGTGGCAGA TGATATATAC AATGATCTGA GAAAAAGGCA GAATCAACAA 35640 AGGTTGTATT TTTATCTATT GCTGCGTAGC ATATTTCCTT AACTTTAGTA GCTTGAAACA 35700 ATAAACATTT ATTATTTCAT AAAGTTTCTG TGGTCAGAAA TCCAGGAGCA GCTTAACTGG 35760 GTGGATCTGG CTCAGCTGTA GACAAGATGT CGGCTGGGAC GGCCATCCTT TGAGGGCTCT 35820 GAGGGCTTTG AGGGCTGCAC GATCCAATTG CAAGGTGGCT CACTCACATA CTAGGCAAGT 35880 TACTGCTGGG TGCTGGGAGG AGACCTTAGT TTCTTATCAC ATGGACCTCT CCACAGGGCT 35940 GCTGGAATGT CCTCATGACC TTCCCCATAG TGAGTATTCC AAGACAGGAA AGTGGAAGCC 36000 ACAATGTCTT TCATGACCTA GCCTCAAAAG TGACATACTG TCATTTACAC AATATTCTAC 36060 TGGCTGTACA AGTTAATCCT ATTTAGTCTG GGAGGGGACT GCATAAGGGC ATGAGTAACA 36120 AGAGGCAAGA ATCCTTGGGG GCCATCTTGG AAGCTGGCTA CACAGAAGAG AAAACACCAG 36180 GGGAGTGCGA AGAAGGTGCA ATTAAACTCA ATTCCTTGGT ATGCCAATGG TAAGAAATAT 36240 TAGGTGATCT CTGGGGTGTA ACCTTTTTAA TTTAGTTCTT CACTGAATAA TCTGGCCAGT 36300 AATTGTAATA CAAAATACGG CACTCTGACA ATATTCTCTC CCTTTATAAT CAATTACACA 36360 CCAGAATATA TATAAAGAAA GACTTACAAA GTCACAAGTA ATTGTTTGGT ATTATTTTTA 36420 TAATCACATA CTAGGGCCCT ACAATTAGCA TTCACAAACA TCACTCCATG TTGGCCAGAT 36480 AAGTCTGTCT TTATAGTGGT TTACCATACG CGCCTTAGCA TGAAGTTACA TGTGGTTTCC 36540 TTAGCCATCA GATGCTCCAA ATGCAAAAAA TGTCTCACCA CAGTCACAGA ATCATGGAAT 36600 CCTAAAGTTA CCTGGGGTTT CTGAAAATCT CATGGGAACA ACTCACGAGA ATTAAGGCTT 36660 AAGAAAGTGA TTTATCAAAG AACAAAACCA GCAAGACTTG AGTTTAGAAC TCGCAGCAGA 36720 GTTGTGACTA GAACCTGTTG AAATAGGCAA TGTAGAAACC CAGACTAAGG CACATTCTCT 36780

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ACAACTITAC TATGCAAGTA TGCTTAGATA CTCCTTAGCA AACAGCAGGC CTTGAGTAAA 36900 TTCTTCAGA ACTGAATACA CAAAGGATAC AGAACGGAAT ACACTAACAA TAGTGCATGA TGTGCTCATT TCTGTAATAG AAATGAATTA ATTCTGATCC ATCTATAATT TATTATTGCT 36960 CCATGATTAA CGGAAGGCAT AGGAAAGATG ACTGGAATAG TGTAACTAGT ACAAACAAGT 37020 ATTACACTTG ACTGAACCTC ATTACACTGC AATTGCATAT TATATAGTAT GTAGGTGAAC 37080 AAATACTGGG TTAGTCAGTG GACCTACATT TGAATACTGG TTCTGCTCCT AGACAGCTGT 37140 ATGATTTGAA TGACTTCTTT ATACTTTCAT AGTTTCTCTG TTCTTCTCTG TAAAACAAAG 37200 GCTTAGAAGA TATTATGGGT TAGATTATGC CCCTTACAAA AGATGCTGAA GTCCTAAACT 37260 ACAATACCTG TGAATGTGAC TTTATTTGGA AATAGGGTCT TTGCAAGTGA TAAAGAAGAG 37320 GTCATGGAGT GACCTAATCC AATACGACCA GTGTCCTTAT AAAAAAAAGG AAATTTGGAT 37380 ACAGATACAC ACAAACAAGG AGAATATCAA ATGAACATGA AGGCAGAGAC CGGGGCGGTA 37440 CATCTACAAG CCAAGGGACA CCAAAGATTT TCAGCAAATC ACCAGAAGTT AGGAAGAGTC 37500 ATGGGACAGG TTCTCACAGT CCTCAGAAGA AACCCACCAT GTCAATACAT CATTTTGGAC 37560 TTCTAGTCTT CAGAACCGTA AGAAAATAAA TTTTTGTTGT TCAAGCTACC CAATTTGTGG 37620 37680 TACTTIGTTA CAGCAGTCCT AGCAAACTAA TACAAATGAG CTCTTAACAC TGGTCTAAAA 37740 TAGGATAATC CTATGAAATG CTACAAATGT TTGGGAAGAT TTCTCATACT CAACTGTTTA CAGTATACCA CAAGCCTGTC AGTTGAAGAT ACAAACAGAC CCTCTATAAT CCTCTATACT 37800 TATATGCAAG GAACAGCACA CTTTTTCTGC AAAAGGTCAG ATAGTAAACA TTTTAGGCTT 37860 TGTGGGCCAA ACAAGGTTTC TGTTACATTT TTTTTTATA ACTCCTTAAA AATGTAAAAA 37920 TCACCCTCAT CCCAACGGAC TACAGGAACA GACCTCAGGT CACATTTGAC TCATAGCCTG 37980 38040 ACCCTGGTG TGTAGGGTTA ACAAGCCTCC TTTCCCTGGG CTCCTTTTTC TTTCAGCATT 38100 CCAAGCCAAA GGAAACTATC TTTTTCAAAT CATTTTCTCT CCTAGGTGGG ACATCTTACA CCAGCCCAGG CATGCTTCCG ATAGCCTTAG AGTAGCTGTC CCTTCCTCAG AATTACTGTC 38160 TAATTGGCTA GAAGTTAGCA ACTITTTACA TTTTTCCTTC AATTCCTTTC CATTAAGAAG 38220 38280 AAGGCATGCA CCGGCAAATT ACTTGTGACT ATCAATGACA TACTCTCAGA AGCACCAGTA CCCCTGTGTT GTTTCTAAAC CCATTCTAAT AGACACATAC CCCAAGGTTA TGCTGTTTGT 38340 CATCTCACAA AATGACTTAC ATCTAGAGAT TTAAATAATT AATGTACTTT TCATAACTAC 38400 CAGGTACAGT AGATCTGATA ATGGCAGAGC TAAGCACATA TACAGAAAGT AGGGCAAGGG 38460 CCAGAGACTC ATTTTAAAGC AATGTTACAA GATCGTCACT GTTGCTTTTC ATTTTTCTAA 38520 ATGTGGCCAC TGCTGTTTTC TCACTAAAGG AAATGTTTTA TGTAAAGTGA ATAACAGTAC 38580 CTGGCATAAA ATAAGTGCTC AATAAATGTT AAGGCCTTCT CTCCCTCTTC AACTGGCCTC 38640 38700 CTCATTTTC ACAAAGTGAA ATAGAAAAAC AACATGGAAG ATAATCCTGT TGCTTAGGAA AAATAACTAA AGCTTGCTAG ACAAAATACA CCTGAAAATA TAGGAAGTGA GCTATAGCTG 38760 38820 AGAAATGGAA GGAAAGGGGC TACAGCCTTG GTGGCAAAAT AAAGGATAAG ACGACTCTTT 38880 TAAAATGGTC TATTTCAAAT GCTGGGTTGT GAAACTTAAT TTGATTACTT CATGAGAAAC 38940 AGCATCTATA ATCCATCCCT GATTTTTCTA CAACAAAAAT TTATTATTTA TTTTATGTTT 39000 39060 GTGTGTAGAT CTTTTATATA TATACATGTA CACACGTATA TGTATATATT ATATATGCAT ATGCATATAT ATGTGTATAT ACATATATAA TATATTGTGT GTGTATGTGT GTGTATATAT 39 120 AATTTTTTA AAGGAATGGG GTCTCACTAT GTTGCCCAGG CTGGACTTGA ACTCCTGGGC 39180 TCAAGCAATC CTCCACCTCA GCCTCCCAAG TAGCAACCAA CAGTTTTAGT TTTGAAAAAA 39240 TAACAAATAT TAAACACCCA TGTGTAAGGG TTGGTACTGG GCCCTGTGTT AGTTTGCATG 39300 GGCTGTCGTA ACGTAACACT ACAGGCCGGG CACAACGGCT CACGCCTGTA ATCCCAGTAC 39360 TTTATGAGGC CAAGGTGGGC GGATCACCTG AGGTCAGGAG TTTGAGACCA GTCTGACCAA 39420

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CATGGAGAAA CCCCGTCTCT ACTAAAAATA CAAAATTAGC CATGTGTGGT GGCTCATGCC TGTAATCCCA GCTACTTGGG AGACTGAGGC AGGAGAATCG CTTGAACCTG GGAGGCGGAG 39540 GTTGTGATGA GCTGAGATCA GGCCATTGTA CTCCAGCCTG GGCAACAAGA GCAAAACTCT 39600 GTCTCAAAAA CAAAAAAACA AAAACAAAAA AACCCTGATA ACACTACAGA CTGGGTAGCT 39660 GGACCAACAG AAATTTATTT TCTCACAGTT CTGGAGGCTG GAAATCTAAG ATAAAGTTGT 39720 TGGCTGGTTT GGTTTCTGAG GCCTCTCTCC TTAACTTGCA GATGGCTGCT TTCTTGAAAT 39780 GTCCTCACAT AGCTGTCCCT CTGTCTGTTT CTGGTGTCTC CCCACGTATC CAAATTTCCT 39840 CTTCTTATAA AGATACTAGT CATATTGGAT TAGGGTCCAC CATAAAGACC TCATTTAAAC 39900 TTAATCACCT TTTTACGGCC CTGTGTCCAA ATACAGTCAC ATTCCGAGTT CCAGGGGATT 39960 AGGGCTTCAA CCTATGAATT GGGGGTGGGG CACAATTCAG CCCGTAACAG GCCTAGACCT 40020 TAATTTGTCA ACACTACAGT TAGATTTATA GTATAGTAAC TGCATCTGTG CTCATCTAAA 40080 TGTCATACCC AAATGAAATA ATATAGCATG ATGATCTGAA TTTATTAAAG GCAATTTTTC 40140 CTATAGAAAC CCAAATCTAT AAATTATATA CAAACTGTGG TAAGTTACTC GATACCTTGC 40200 CAGGACTCAT CTATGGTGGT AGATAGACCA CAAAGAGTAC CACTGAAAGA TCCCTTTCCT 40260 AATCACAGTT TCCTCACTGG CTTGCCACAA AACCTAAAAT TCTTCTATTC TTTCATTGGC 40320 AATTTATTTC CCCTGAAAAT GTAAATAATC TCTGGCAGAG CAATCTATTA AGTGATCATC 40380 AGCCACTAAC ACCTTAGGGT AGAACAGCTC AGATCACAGT CTTAAAATAA ATTCCATCAG 40440 TATGAAATTT TCTTTATTAC TGCTCCGCTA CTGGAATGTT AGATCACTGT CTGCTTTAAT 40500 AATAATTCTG GTGTAGGTCA TTCAAATTTT GTTTAAGATA ATAAGACAAA TAGCAGGTAT 40560 40620 AAAAACATTC CGTCATCTAA TAAAGCAACC CGAGAACAGT AAGAAGAACG TGATGAAATT AACATTTTTG AGTACCTGCT AGGAATCAAG TATTCTGCTA GATATTTTAG AAATCATCTC 40680 AATTCAATCC TAAAAATTAT TCTGTATAAT AGTATAGGTT GAGTATTCCT AATCCAAAAA 40740 TCTGAAGCTT TTTTTTCCT GAGACGGAGT TTTGCTCTTG TTGACCAGGC TGGAGTGCAA 40800 TGGCGCAATC CTGACTCACT GCAACCTCCG CCTCCTGGGT TCAAGTGATT AGGGATACTC 40860 AACTGGCTAA ATATAATGCA AATATTTCAA AATCTGAAAA AACCCAAATC TGAAACACTT 40920 CTGGTCCCAA ACATTTCAGG CAAGGGACAC TCAAGTTGTA TTAATCCCAT TTTACAGAAG 40980 AAGAAACAGG CTCAGATAAA TGAACATCTC AGAGCTTGTT GATAGCAAAG GAGAGATTGA 41040 AACTGTCAGG CCTCTGATCC CAAGCCAAGC CATCACTTCC CCTGTGACTT GCATGTATAC 41100 ATCCAGATGG CCTGAAGTAA CTGAAGATCC ACAAAAGAAG TAAAAATAAC CTTAACTAAT 41160 GACATTCTAC CACTGTGATT TGTTTCTGCC CCACCCTCAC TGATCAATGT ACTTTGTAAT 41220 CTCCGCCACC CTTAAGAAGG TTCTTTATAA TTTCCCCCAC CCTTAAGAAG GTTCTTTGTA 41280 ATTCTCCCCA CCCTTGAGAA TGTAATTTGT GAGATCCACC GCTGCCCGCA AAACATTGCT 41340 CTTAACTTCA CCACCTATCC CAAAACCTAT AAGAAGTAAT GATAATCCAC CACCCTTTGC 41400 TGACTCTCTT TTCTGACTCA GCCCGCCTGC ACCCAGGTGA AATAAATAGC CATGTTGCTC 41460 ACACAAGCC TGTTTGGTGT CTCTTCACAT GGACACGCAT GAAAGAAACC CTACCTGGTT 41520 CTGTGTCTTA CCTGTTGGGG GCCTGTGGTC AAACTACTAG TACGGAGTTT TAGTGTCCTC 41580 ACTITAAAAA TGAGGGTTGT GGCCGGGCGC GGTGGCTCAC GCCTGTAATC CCAGCACTTT 41640 GGGAGGCCGA GGCGGCGGA TCACGAGGTC AAGAGATCGA GACCATCCCG GCTAAAACGG 41700 TGAAACCCCG TCTCTACTAA AAATACAAAA AAATTAGCCG GGCGTAGTGG CGGGCGCCTG TAGTCCCAGC TACTTGGGAG GCTGAGGCAG GAGAATGGCG TGAACCCGGG AGGCGGAGCT 41820 TGCAGTGAGC CGAGATCCCG CCACTGCACT CCAGCCTGGG CGACAGAGCG AGACTCCGTC 41880 AACTACCTAC TTTTTATAGC ATTGTAGTGA AGTTGAAATG AATTAATCCA CATATATTAT 42000 AGTGTGGTAG AATGCAGCAG AACTGATGAT GTATGACTTC TAAGACTAGT CCTTAAGAGA 42060

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CCTGCAGTTT TTGCTTTTGC CCTCTTGGAA CACTCCTGTT GCCATGTTAA GAAAAACTCT GGGGAGACTA TGAAGGAAGA GAGCATACTC GGGGCAGGGG GGTGAACAGG ACGTGCACAT 42180 GTACGAGCGT ACAAGCCAGG TGACACCAGT ACCACAGCCT CAGACATGTC ACCGGGGATA 42240 CCAGCACCAC AGCCTCAGAC ATGTCACCGG GGACACCAGC ACCACAGCCT CAGACATGTC 42300 ACCGGGGACA CCAGCACCAC GGCCTCAGAC ATGTCACCCA GGGACACCAG CACCAGCACC 42360 ACAGCCTCAG ACATGTCATC GGGGACACCA GCCCCATGGT CTCAGACATG TCCCTGAGGC 42420 CCACTTAGAC CCTTCAACCC CAGCCCAGCT GCTAACTGAC TACAGCCACA TGAACAGAAC 42480 CAGGTGAGAC CAGAGGAAAC TTCCAGTCAC CTACCAGATC ATGACAAATA ATAAACGATG 42540 TTTTTTAAAC CACAAAGATT TGGAGCAGCA TTTGTTACAC AAAATTAGAC AACTATTACA 42600 GTTCGACTAA AAACATGTTC ATTTACAATA CTAAATTAGA AGTGTAAGAA TGGGAGAAAA 42660 ACTTCATACT TTAAAAGTCA TTTTTTCCTC CAAAAACTTC CAACTTTGAA AAACTGATTT 42720 42780 TTATAATGCA TAAAAATTAA AATAACCTTA GAATTTATAT GAGTAGCATA GCCAGCTGGC 42840 TTTATTATCT: GTTGTACTCA ACACTTCAAT AATCACTGAT GTTTTAGAAC TCTTCAGATT TAGAACTCTT GCCCTTGCTT TAGTCTGGTT TAAGCTAAAT AATTGTTCTT CCTCAAGAAC 42900 AAATGACCTT ACCTCGTTTT GTTTTCCTTG TCTGAGAGAA ACACATTAGC AGTCTCCCAT 42960 CTTGTTTTC CTTTTCCTGT CACCCAGGAC AGAGGGCAGT GGTGTGATCA CAGCTCTGCA 43020 43080 GCACGACTTC CCCAGGTTCA GGTGATCCTC CCACCTCAGC CTCCCAAGGA GCTGGGACCA 43140 CAGGCACATG CCACCACGTC CAGCTTAATT TTGTATTTTT TTGGTAGAGA TCAGGTTTTG 43200 CCTTATTGCC CCAAGCTGAT CTTGAATTCC TGGGCTGAAG CAATCTGCCT GCCCTGGCCT 43260 CTCCAAGTGT TAGGATTACA GGTATAAGCC ACCGTGCAGC CTTATATTTT GTTTTAAATT 43320 TTCCTCTGTA TTTTCTCTC TGGCAAATTG TTTAGGGAGT TTCTTTAGTT TATCAGACTA AATTTCAAGG CTTTCCTTCC AATTTTGACA TGTAAACAGT CCCTCATTTC TGCTTATCTA 43380 GTGATTATTC CCAAATCTGT GTTTACAGTC TAGCTGTCTC TCCTGAGATT AAGACTTGTT 43440 43500 TCTCTAACTA CCTGACGGCA GAATCTCCTC TTGGAAGTAT CAAGGAGGCA GTTCAAAACT GAACTGGGCA TTGGCTCCAC TCCTTCTCCT TCTCTTTACT ATTAATACCC TTTCTCTCCT 43560 TCTATATGAC CACACTAAGT CTTATTTAGG CATCGTTTCT TCTGGGAGAC CTTTGTAGAA 43620 43680 TCTCTGAGGT TATGTTAACA TGCTAAGGTT TTCTTGACAT TCTCAGATTG GGTTAGGTGA ACTITTAGCA ACTIATOTTI TTACTAAAAA GTCATCCCTC AGTATCTGTG GGGAATTGGT 43740 TCTAGGACTC CCTAAGGATA TCAAAATCTG CATGAGCAGC CCAGGTGAGA CCAGCAGAAG 43800 CACTTTACAG TCACCTACAG GATCATGACA AATAATAAAT CATGTTTAAG CCACAAAGTC 43860 CTTTACATAA AATGGTATAG TATTTGCATA TAACCTACAC ATCTTCCTGT ATCCTTTAAA 43920 TCATCTCTAG TTTATAATAC CTCATACGAT GAAAATACTA CGTAAATAGT TGTTATACTG 43980 TATTGTTTAG GGAATAATGA CAAGGAAAAA AGTCCACGCG TGTTCAGAAT AGATGCTTTT 44040 TTTTCTCGTC TAATATTATG GATCCACAGT TGGTTGAATC CACAGATGTG GAATCCATGG 44100 ATACCAAGGA ACGACTGTAT GCATTTTGAC AATTATACTT CTCATCTTAC CATGCATTCA 44160 ACAAACAGAA CATGTAAAGC GGTGATAATG CTGTGATGAA AAATAAAGCA GGGGAAGAGG 44220 44280 CTGCATCCAT CTAGTGGAAA CGATGCCCTT TTCAATCTGC ACAAAGAGAA AAAGCTGCTC TCCAAGTTGG GGGGTGGGTG GGTCAGGTAT GTAAATTGGT CAGGAAGGGA TCTGTAGGCA 44340 44400 CTTACAGATT TGACGCTAAT GAGATGGGAA GCCACAGGAA GGTTGTGAAG AAAAGACAAG 44460 ACATGATCTG ATTCATGTTT TGATCTGATA CACTGGTTGC TAGATGGAGA ATAAGCTGCA TGGCGGTGAG AGGAAGCAGA AACAATAGGA GGGTAATGCT ATAATCCAGT GGTCCATAAT 44520 CCAATATCCC CCCAAGGAAC AGTTCGGCAA TGTCTGGTGA CATTTCTGGC TGTCACAACT 44580 GTTGGGGCGG AGTGCTACTT GCATCTAGCA GGTAGAAGCT AGGGATGCTA CTAAACATCC 44640 44700 TACAATGCAC AAGACAGCCC TTCCCCCAAC ATTGCTGGCC CAAAACGTTG ATAGTACCAA

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GGCTGAGAAA CTCTGTTATA ATCTGTCCTA GAATGTAGCT TGGATTGAGA TGGCAGTGGT 44760 AAGAGCTGGA GAAGTGCTTA GCTTCCCAAT GTTTTTTTGT TTGTTTGTTT TTGAGACGGA 44820 GTCTCGCTCT GTCGCCCGGG CTGGAGTGCA GTGGCGTGAT CTCGGCTCAC TGCAAGCTCT . 44880 GCCTCCTGGG TTCACGCCAT TCTCCCACCT CAGCCTCCCG AGTAGCTGGG ACTACGGGCG 44940 CGTGCCACCA CACCCAGCTA ATTTTTTTGT ATTTTTAGTA CAGACAGGGT TTCACCATGT 45000 TAGCCAGGAT GGTCTCCATC TCCTGATCCC GTGATCCACC CACCTCGGCC TCCCAAAGTG 45060 CTGGGATTGC AGGCGTGAGC CACCGCGCCC GGCCTGAATG TTTTTAAAGT ACTGGTGACC 45120 ATATTCGCTG AGGGATTAAA TGTAAGGTAT GAGGGGAAAA TAGGAATCAG ACACCAGGGT 45180 TTACTGCCTG AGCAATGAGA AGAACGACGT TCCTCATACG GAGATGAGGA AGAATGTGGA 45240 ATAGCAGGTA AATAGCATGT GCTTGCTTTG TTTGGGGCTG TGCAGAAGAG ACTGATGGGA 45300 CCAACGTGCT CAGTTCTGGA TATATTAAAC TTGGAATGCC TATTTGGCAC CAAGTGAATG 45360 TATCAGGTAG GCAGATGGAT AAATGAGTCT GAAGTTCAGG GGAGAGGCTG GGGTGGCAAT 45420 ATGAACTTGG GAGTCTCCAC ATCTGAATAG TATTTAAAGC TATACAACAG GATAAGGTGA 45480 TTTAGGAACT AAACACAAAT TGAGACGAGA TCCGAGCCCA GAGGCACTCC GATGTTTAAA 45540 45600 AAAGAGGAGG AACCATCAAA AGATACTAAG GAGAAGCCAA GAAGTAGGAG AACTGAGAGT CTGAGAGAAT CATTATACTC ATTTGATCGA CTGCAACAAA TGCTGCTTAG AGGTCAAGCA 45660 AAATGAGGAC TAAGCAAGGA CCACCAGGTC TGGCAACATG GAGGCCAATG CCGACGTGGA 45720 AATGAGAGTT TTGGTGGGAA GACAGGAATA AAAGTCTCAC AGGTCTGAAT TCAAGAGAGA 45780 GAACAGCAGA AGAAGGGTAG AGGTGGTAGC CATAAACAAT GATACATTCT CTTGAGGCCT 45840 TTTCTTGCAA AGCTCAGTGA AGAAACATGG TTCCAGAGAG GGATTTTTTT TTCTCTCATT 45900 TTACATATGC AAACATATAA AAAAGCTGAA AGAATTGTTT GACAACCACC CTTATTCTTA 45960 CCACAGATTC AACATTTAAT GCCATATGTT TTCCCTGTAT GTACTGTGTA TTGTTTGAGG 46020 46080 ATAACTTCCC CTCTAAATAT ACCTCGGATG TATCTCCTAA AATAAGTCCA TTCTCCTACA TAGCCATAGT AACCATGAAC ACACCTAGGA AAATTAAAAA TATATTCTCA AATATATTAT 46140 ATAGCTGGGT ATATTACAAT TTCCCCAATA TGTGATTTGC AAACCAGGAT CAAGTCAAAG 46200 TCCATGCACA GCATTTGGTT GTCATGTGTC TTTGGTCTCT ATTAATAATG ATGACTGTTT 46260 GAAAAGACCT GTCCTATAGA ATAAATTTGA CTGATTATGT CATGCCATTG AACTTGTTTT 46320 46380 TCTATTCTAG AAGGATAGTT TTTTAGGGTA GTGAATACAT TTATTACTCT TGGCACAATA GTCTAACATT TCCCAATTTC CTTATATCTC TGCCCTTTCA TTTTCAGAAA ATCAATTATT 46440 CCAAGATTTG TTTTCATTT ATCATCACTT ATTAGCTCTG AAGACTCAAC TGAGCAACTT 46500 TCAGGGTTTA TATACCCTAT ATTCAGAAAA AAACTACTAC CATCTCTCAT TTACCCTAAG 46560 AATTCATAGG AGAGCATGTC TTAAAGCTGA TCAATAACCA AACCAAACAT TTTATTGATC 46620 ATATTACATT TGGAAAGCAA AATGAATTTC CTAAAATTTC TTCCCTGATT AGCAAAATAG 46680 TGCCTCCGAA CACTTGAGGG TGAAAGTTGT TGTCAAATAT GCCTACATGA CTGGAAATTA 46740 TGACATCCAA ATGAGTTCAC TGGGTCTGAT AATAATATGC TCTACATGCT TATGTCTATG 46800 TAATAAACAG CTTACATCTG GATGAGAAAA TTGATTATAC AAATATTTGG GCTTCTACAA 46860 CTGGTCACTC ATCTGTAAGT ACTTAAAGCA ACTTAAAATG CAAACTGACC TAACAATGCT 46920 TATGGTTAGA ATTCCAAAGA ATGTTTAGGC ATTGTCAGGT TATGTTAAAA CATCTTCTGC 46980 CACAATCTTC AAGTGATTTA TCTTTTCTGT TGTGTTGAAT AGCTATAGAA GACAAATGAA 47040 TTCTGCACTC CTGAATTCAA TGAACATTTC AAGTTTCCTC ACTTACACTG TAAGATTACG 47100 TAGCATATTT TAAGAAATAA ATTATAATCA TTTTATTTCA CTTATTGAAC TTCTTTTAAG CTTTGGCATT AGAATTTTAA TCAAAGCACT GCCACTTGCT TACAGTGATG GTTTTTAGGC 47220 TCTTTGGGCC TATGGACTAT TTCAATGACC TTCACTAGCC ATCTAGTCCA CCTTATCCTA 47280 ATTATTACCA CTGCAAAAGA AACCCTCACT TGAATAAATC AGTAGATGGG CATGAGGCAC 47340

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CTCCCAGGAG ACTATAATTA TTAACTCATA CTAAAATCAA AATTGTAGCT ATTATCACTC ATATGGTTTG GCTCTGTGTC TCCACCCAAA TCTCATCTTG AATTGTAATC CCCACGTGTC 47460 AAAGGAGAAG CCTGGTGCGA AAGGACTGGA TCATGGGGGC GGCCTTCCCC CTTGCTGTTC 47520 TTGTGAAAGA GTTCTCCGAT GGTTTAAACG CATGGGACTT CCTCCTACTT GCTCGCTCTC 47580 TTCTGCCACC ATGTAAGATG TGCCTTGCTT CCCCTTTGCC TTCTGCCATG ATTTTAAGTT 47640 TCCTGAGGCC TCCCCAGCCA TGCAGAAATG TGAGTCAATT AAACCTCTTT TCTTTGTAAA 47700 TTACCCAGTC TCAGGTAGTT CTTTACAGCA GTGTGAAAAT AGACTAATAC AATCACCTTA 47760 TGGTAAGTCT GTCTATAAAT CACCTGAACT TTCACAGACT ATCTAGAAGA ACATGTAACC 47820 AGAGTAGTTC TTGATCATGC TATATAAATT ACTGATACAG AAATAGAGCT AGACAGGAAG 47880 GGGCTGGTAG TAGAGAATCA TCCTCTGGAC ATATTCTCAC AGCCTAATCT CTAGCTAGCA 47940 AATTTTATAA TATATAAAA AATACAATTA TTTCACAAAA TTACCATGAA ACGATTTTAT 48000 TGGGATATTA GACATTACTG AATTACTTGT TCTGTGAGGT ATACAGTGAA ATTAACATGT 48060 TATAAAATTG TGGTAGCCGG CCCCCAAGAT GGCCTCCAAT GAATCCTTCA CCTCTTGGTA 48120 TTCATACCTT TGTGTAGGTA GGTCTGTGTA ACCCATAGAA TACAGCACAG TGACAGTAGG 48180 TCACTTCCGA GGTTAGGTTG TGAAAGACAC TGTGGTTTCT GCCTCTCTCT CAGATCACGT 48240 GCTCTGGGGG AAAAGCCAGG TGTCATTTTG TGAAGACACT CAAGCAGCCT TTAGATGACT 48300 GCAACCACAT AAGAGGCTCC GAACTGGAGC CACTCAGCTA AACCACTCCC AGATTCCTGA 48360 CCATGTATCA TTTCATACAC AATGTATGAA ATGACAAATG TCTGTTGTTT TAAGCTGTTT 48420 GAAGTTGTAA CTTCATAACT TATTTAGGTA CTAAAAATCA CAGCAACCCG ATGCAAAGTA 48540 CTAAAAAAA AATCCATTAA TACCTATTGA GTACTGTTGA GGGCATGAGG AAAGCTCTTT 48600 CATACTCCAC ATAAAACTTC CTTACCGTAA TATTCATGGC TGACCTCTAC TCTTAACTCC 48660 TTTCTAGGAT AGGAGGGGCT AACTGATCTG ACAGCAAGTT TGGGAGAAAA AATTCTGAGG 48720 CTCGGCCAAC TTCCTCTCTT CTTTCCATTT GGGATTTGGC TGACTGAAGA GGGTCATTTG 48780 TTTTGGCCTG CTCTCTTACA CAGTAAATGT AGTGGGACAA GCTCTATTCT TGTTGATAGA 48840 AAAACTCGAA TTTTAAATCT GCCTAGTTCT TTGCAGCTCG TTGTTGCTCC AAATCTCAGC 48900 TACCTTTTGA AACAACTTTT TTCAGTAAAC TTAATTTCAA TCTTCATGTG ATTTAACTGG 48960 ATCCAAACAC AGGCAGATAA AAAAGGTGGG GCATTACTTA TCAACCTCTA AACTAAGTTT 49020 AATTTTGTGC CCTCATGGAG TTTATAGTAT ATTTGAGGTT TAAACTAAAA CACCTGGTTT 49080 TAAACAGAAA CTATAAAAAA CACGATTAAT AGGTGAGGCC GGGCGCGGCG GCTCACGCCT 49140 GTAATCCCAG CACTTGGGGA GGCCAAGGCG GGTGGATCAC GAGGTCAGGA GATCAAGACC 49200 49260 ATCCTGGCTA ACACGGTGTG AAACCCCGTC TCTACTAAAA ATACAAAAAA TTAGCCCGGC GTAGTGGTGG GAGCCTGTAG TCCCAGCTAC TCAGGACGCT GAGGCAGGAG AATGGCGTGA 49320 ACCCGGAAGG CGGAGCTTGC AGTGAGCCAT TGCGCCACTG CACTCCAGCC TGGGTGACAG 49380 AGCCAGACTC CGTCTCAAAA AAACAAACAA ACAAAAAACA AATAGGTGAA AGGCCGTGAT 49440 CATTGGTAAG CGTAAGAAAA TCTGAGGGAG AAAAAAATAT AGATGCCCAG GCCCCATGCC 49500 AAACTCATGG AATCATGCAT GAAACCCAAG CAGCTGCAGT TTTAACAAGT TCCCAATATA 49560 TAGTTGACCC CTGAACAATG CAGGTTTGAA CTGCCTGGGT CCACTTATAA AATGGATTTG 49620 ATTTTTTCA ATAAAAGTTA CACCGAGTGT GCCTGCCTCT CCTCCCTCCC TCCCTACATG 49680 CTCCTGCTCT TAAGCCTCTG CCATGAGGCT TAAGACAGCA AGAACAACCC GTCCTGTTTA 49740 TTTCAATAGT TTTGGGGGGT GCAGGTGGTT TTTGGTTACA TGGATAAGTT CTTTAGTGGT 49800 GATTTCTGAG ATTTTAGTGC AACTGTCACC TGAGCAGTGT ACACTGTATC CAACATGTAG 49860 TCTTTTAACC CCCATCCAAC CTTCTTCCCC AACCCGAATC CCCAAAGTCC ACTGTATGAT 49920 TCTTATGCCT CTGTGTTTTT ATAGCTTAGC TCCCACTTTT AAGTGAGAAC ATACCATTTT 49980

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TGGTTTCCCA TTCCTGAGCT ACTTCACTTA GAATACTGGC CTCCAGCTCC ATCCAAATTG 50040 CTGCAAAAGA TATTATTTCG TTCCTTTGTA TGGATGAATA GTATTCCACG ATGTACATAA 50100 ACATTTTCTT TATCCACTCA GCTCCTCTTC AGTCTACTCA ATGTGAAGGT GACAAGGACG 50160 50220 AAGATCTTTA TGATGATCCA TTTCCACTTA ATGATTAGTA AATATACTTA CTTTTCCTTA 50280 TGATTTCTT AGTAACTTTT TTTCTCTAAC TTACTTTATT GTAAGAATAC AGTATATAAC ACATATGACA TACAAAATAC GTTAGTCAAC AATATATGCT ATCAGTAAAC TTCCAGTCAT 50340 CAGTGGGCTA TTAGCAGCTA CGTTTTTTGG GCAGTCAAAA GCATGGGGAA GGAGAGGGTG 50400 GTCCCTAACC CCTGTGTTGC TCAAGGGTCA ATTGTAATAA TACCCATTTA AGAATCCATG 50460 GTATATATGG TAAGTGCAAC AACTCTAGAA GAGAGTGCTA GGAGTTGGAA AAGGAAAGAG 50520 AAAACAGAAT TTAAAGCAAT CTGTAAAGGA CATGCAGGGT TTAGATGAGG TGGAAGGGTG 50580 50640 AGGGAAAACC AACATCTGCT GTGAGGGCAT ATTAACTGCC AGACATTGTT CTATGTCTTA 50700 CCTCATTTAA GAGAATTTCA TTTCACACAT GGAAAAACTG AAGCCCAGAG AGGTTAAATA ATTTGCCTGA GGCCAAAATT AGTTAAATAA CAGAAGTGGG ATTAGTAGAT GTTTTCATTT 50760 TATCAGTGAA ACTGAGCCTC AGGGAGGTTA AATATTTTGT ATGAAGTAAC AAAACTGAGA 50820 TTAATATATG GCCAAGTTTA AATGAGATCT GTAAATCTAA TGCCTACACT AAAACAAAAA 50880 AAAAAAGTG GGAAGAAAAG GTCTATATTG CTTAGCAAAA CAGAGGTAGG GAAGCAAAAA 50940 TAAACTTACA AAATCAGATT AGACCACCAA AAAACAGTCC CCATTTTAAC TTATGTGGTG 51000 AGAACCATAT ATTAAAGACC ACCAGTGGCT TAAAAATCTT TTTAAAAAAT GAATCTGTTT 51060 TCATTATTCA TTAGTTTTTA TCTAATGAAT AATGTATCTT AACTGATACA TTTACTAAAC 51120 AATTACCAGC TCCAATTAGC ACTCAGTTAC AATTCAATCA TTAAACTGAC CCTCAATTTA 51180 GCTGTCAACC TAGTCAAAAC AGTTAAGTGA TTTTACGGTC ATCCTCAGTT GCAGAAGTAT 51240 AATGTTTATG GCTGGAGTCA TTTTATTTTT AACTAACATT TTTTAAAAAG ATTGCTTTGT 51300 AACAATGTGT TATGAGTCCT TTGTGGTAAA TACTGCTTTT TTTTTGAGAC GCAGTCTCGC 51360 51420 TTTATTGCCC AGGCTGGAGT GCAGTGGTGC GATCTTGGAT CTGAGGCTCC TGCCTCAGCC TCCTGAGTAG CTGGGACTAC AGGCATGCGC CAACGTGCCC AGCTAATTTT TTGTTTTTTT 51480 AGTAGAGATG GGGTTTCACC ATGCTGGCCA GGCTGGTCTC GAACTCCTGA CCTCGTGATC 51540 TGCCCACCTC GGCCTTCCAA AGTGCTGGGA TTACAGCTAT TTTAAGGACT TTTTAAAAAG 51600 TGAAGCTAAA CATTTATTCA TCCCTATTCC TCATCTATAG GGACTTGTGC TCTATTTTTC 51660 TTTGAAGACT GAAGTAAAAA TTCACCTTTG TGAGGGTCTT CCTATAATTA AAATTAATCA 51720 TTTTTCCTC CATAGCTTCT ACAAAACATT GCCTGTACAA CTCTATTTAG CACTTATTTC 51780 ATCCCGCCTT GTATGAAAAC TATTTGTTTA CAAACGTTTC TACTTCTCTT TAGGAATAAG 51840 GACTATGCAT TATTCACTGT TGTATTCTCC CTGCATTTAT GGCAGTCCTT TGCACATTAA 51900 51960 ATACAAGCTT TTTGGCTCTG TGCATCTCTT CATCTGGCTG TTCATCTGTA CCCTTTAAAA 52020 AATAGCTTTC TCAATAAGAA AAGAGTATCA ATTATGCATA CGTCTGAACT AACAAACATG 52080 AATGAAATAG GCTATTTAAT ACATTCTGTT TTAAAAGTAG GTTTGGTCAG CCATGTAAAT 52140 TGAAAATTGG GAGCCACCAA GATAACTCAT CAACAAATAT GCACTATGTA CTAGGCACTA 52200 TATAGATGAT GGTGAACCAA ACAGATGTAA TCCTTGCTCT TACAGATCTC ACAACCTACT 52260 52320 ATGGGGCCAA AAATATATGT GTATGTGTGT GTGTTATACA TATATACACA CACATACATG TATATACA TATACACATA CACATATATA CATACGCACA CATACACATA TATACACACA 52380 CATACATATG CTATGAGGAA AACAAACAGG TGGTGAGAAA GAATTAGAGT AGGGGTAGAG 52440 GACAGAGGGC TCCTCAAATA GGGTGGACAG CTTGACACAA GACACTCGAG CTAAGACTCC 52500 AAGGATGAGA AGACAGTTAT GTAAAGAAAA GGGGACTAGC ATTGTCAGCA GGTAGCTAAG 52560 GCCTTAAAGC AGACAGTCAT GTGCTGCAAT GCCAGCTTCA AGCGAATACA GTTACTAAAG 52620

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CATATCTAAC CTTCTATGTG AATGTAGTTA CTAAAGCATA TCCTCCAACT TTCCATTTTT 52680 52740 CTTTTGCTAT TGTTTCTACC ACTTCTCCTT TTCTGTTGAC AATTATTTTA AATTTCCTGG CTAAATTAAA TGATGGCATG AACTCTGGGG AAAGTAAGAC TACCTATGTC CAAATAATCC 52800 TAAATTCCTT CTAGTCCTTA TGACTGATCA ATTCACCCTG AAGTGACAAC TATGTCCCAA 52860 TTAGGAAAGA GTGTTTCTTT ATCTGCACTT AATTTTTTGA TTTGGAGGCT TCCTGATTGC 52920 TAATCAACAT GTTGTGTGAT TACTTCAACA AGTACTTATA GAACGTTATT TTGTCACTGG 52980 AAAAACGTTC TGCTGCTTTC TGAACTTTAG GTTGCTCTAG AGTCTAGGAA GAGTGACTGT 53040 ACCTAAAGCA GTTCCTAATT ACTGGACATT CTCAGATCTG CTAGAGCTAC ATGTCCAATT 53100 ACGAGAATAT ACTGGAAAAA GCCCTGGATT AGAAATGAGA GGATGTAGGT TTTAGTACCA 53160 GGTCAGCCAC CTTGTTAATG CAAATTTGAG TAAATTGTTA CTTCTTTTAG GCCTTGTTTT 53220 TGCTGTTTTG TTTTTCTGAC AGTATGGTCT CTGTGGTCCA GGCTGGAGTG CAGAGGCACA 53280 ATATCAGGTC CCTGCAGTCT CTACCTCCCA GGATCAAGCC ATTTTCATGC CTCATCCTCC 53340 TGAGTAGCTG GGATTACAGG CATGTGCCAC CACACCCTCG AACTCCTGAC CTCAAGTGAT 53400 CTGCTTGCCT CAGCCTCCCA AAGTGCTGGG ATTAGAGGTG TGAGCCACTG TGCCTAGCCT 53460 TACACATTGT TTTCTTACTG GTAAAGTGGG AATATCTAGA AGTTGCATGC TACATAAATT 53520 CAACCATATA TTATTGGCAA AAAATTTTAA AGAAAAACAT CAGCTTAAGA GTACTAATTG 53580 AGTACATGCC TTGGAATGAG CATGAGCTGG AAAGAACAAA CCTGTTGTTA CATCACTCAT 53640 53700 TGCTGTTTTC ATATGCTGCT CATTGTAAAT CTTGCTCAGT GGCATGATTT TAGTGTTTAA AGATTTATTT GTTTGTTTGT TTAGGACAAA GTCTCTACAC ATAATCTACT TGCTTCATAT 53760 ATACATACTT ATGCATATTA TGTATGTACA TACATGCTCT CAGGGCTCAC ATGAAAAAAC 53820 AGCCATTCAG GTGATGTGAT TTATCTCATA TGCTTACTTT AGAGTCAACA GGGTGTTGAC 53880 TCCACTATAC AATACTGGCA TGGAGAACAC ATAAGTCAAA GTAGACAGGA CCCAGCCGTA 53940 CCATTGGCTA GGGCACAAAT ATATTCACAT ATGTGGAGAA TGATGTACGT AGAAAGGTCT 54000 TCATTGCACA ATGCTCTTTA ATAAAGATCT GGAAAAAAA AACACCTAAA TGTTCAAAAG 54060 GATAGGGTAG ATGAAATAAT GGTACATTAT AAAATGGAAG ATTATGCAGC CATAAAAATA 54120 AGGAAATACC TTAAATAATA ACAGAACAAC TTTTAAGGTA AGTGAACAAA TAAGGTACAT 54180 AATCACTATG CATAGTATGT ACCATTTACA TAGAAAAAGG GAAGAAAAAT AAAATATATA 54240 TAGTAATTTA TTTGTTCTTA CATGTGTAAA ATTTTTCTGA AAAATATACC AGAAACTGGT 54300 AGCACTGGTT GCTTCCTAGG CAGAAAATGA CTGAGTATCC TTTTGTACCT TTTGAATTTT 54360 GAACCACGTG AATGAATGTG TTACCTATGA ACAAAATGAC AAGTTTAGAT CAGCAAGACA 54420 GCAGTTTGAG ATGAAATGGG ATTACACCCT TAGTAGGAAA AACTTTTTAA AGCAGGTGGT 54480 54540 ACTTCTAAGA GCAAATACCT GCACATGGAA TGTTGAAACT ATAAGGAACT CTCCTTAAGA 54600 GATCCATCTA TTCCAAACTT CTCATTTTAT AGATCTGTAA ACTGAGACCT TAAAAATTCA GTGACTTGCA TAAGGTCACA CAGCAGAAGA GATGGGATTA GATGCTAGAT ATTCCAATAT 54660 CAAGTTTAGA CTATTAAAAA TTCAGTGACT TGTGTAAGGT CACACAGCAG AAGAGATGGG 54720 ATTAGATGTC AGATATTCCA GTATCAACTT TAGACTATTA TCACACCATC TTCTCATTTT 54780 CTGGGGGCAA AACAGAACCA AGTAAGTTTG GGCTACATTA CGAGTTGTCA TGTTTTTGTT 54840 TTTGTTTTTT TGAGATGGAG TCTTGCTCTG TCGCTCAGGC TGGAGTGCAG TGGTGTAATC 54900 TCAGCTCATT GCAATCTCTG ACCCCGGGG TTCAAGCAAT TCTCCCTGCC TTAGCCTCCC 54960 GAGTAGCTGG GTTTACAGGC GCCTCCCACC GCGCCCGGTT AATTTTTGTA TTTTTTTTT 55020 TTTTTTTAG TAGAGACGGG GTTTCACCAT CTTGGCCAGG CTGGTCTTGA ACTCCTGACC 55080 TCGTGATCCA CCCACCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GCCACCACGC 55140 CCGGCCGAGT TGTCATGTTT TATCTAAATT TTAGAGTCTA ATGTATAAAT TAACCTTAAG 55200 CCCTGAAACT ACTAATTTCT TGTTTGGATC ACTATACGGC TACACTTAAA AATATGCTGT 55260

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GCATACCTCT ATCATTGCAT GTATACAATA TGATAGATGC ATGATATGAC AGACACACAA 55320 TATGATACAC GTATTTTTT CTATCCTAAC ACATCTGAAT TTACTGAAAT AACTAAAATG 55380 TCTTAAGTTA CTTTTTTAAA TATACACATG CATAGCACAA GCGTGTTGCC AAAAATATGA 55440 ATACAGGTTT ACAATTCCTT AACTAAAACC CAAGGGTTGG ATGTGTTTTA GAAATAAGAA 55500 TTTCATACAA TTTTTAAGTG TTACAGGGTA TATAAACCAT TATATAACAC ATACCAGGGG 55560 CCAAGGGCAG CACCCCATAA TCAAACATAT TAATATAGTT TCAGCAAAAC ACATGGGATA 55620 AAGACTATAT ACAGCTTCTC AATAGTTCAG GTCATATTTT GCTACCAAAT GAATTTTGTT 55680 GCCAAGCTTA AGAAGTTTTT GGTTTTCACC GCTTTCTGAA TGTTAGATTG AGATGTGGGA - 55740 TTACAGACTG TACTCATAGA GTGCTTCTAG AAAGCAGTCA GTCACTTCAA CTCTCATTTT 55800 TTTTTTATGA GACTAAAAAA GAAATCATAG CAAGTAGCTT TTATATCCCA GGTTTGGGCC 55860 AAAGACTTGT ATTGTGGTTA AGGAATCTAA CTTAGTAGAA GGTGCACGAG CTGACATCGT 55920 GAGTGGCTAA AATGAGAGAA AAAAAGAGAA AATCCTAATC ATACAGAAGC ACTGAACTAC 55980 TGCAGCTGTT CGTTAGTTAT TAATTTAATA AAAGCTTCCT CCCTTTAAAT CATGTGAGTT 56040 TATAACTGGA AATAGGTCAA TAAAATTTCT GTCCCACACT GCTGACAAGC GATGGACGCA 56100 ATTAGCTTTA ATCCCACTGG AAGGTACTGC ACTCTCTCTG GGACCAGGAT ATGTAGAAAA 56160 56220 AAGCATTTCA AATATATAGG AATAACCAGA AATGTATACA GTATTCTCAA CTTGGGACCG TTACTCTATA ATATAAACGA AAGGGGTTTT CTAGTCAATC TCTGCTGATC TCCTGTACCA 56280 AAGTTCTTCC CTTTATAAGT CTTGTACTAC CTTTTACAAG AGGAAAAAGC TCTAGAGCGA 56340 AAACACAGAA CACACTAAAA TCCCTTCCTT TCTCTTTACA ACTCAAGCCC CGCCTCCATT 56400 TTGTTTCTGT TACTAATTTT TCTTCTGAAA AAATACCAAA TTTACACTGA AAGACTAAAA 56460 TTCAACTTTG CAGACAACGT TTTAAAAAAT ACAATTCAGT TTGGTGATGT TGTTTTGCAG 56520 TCTTACAATT TTAGCTACAT TTTAACTGAA CCAATTGTTT TGTTCAATTT ATGAGTTAAT 56580 ACTCAGCAAG TTTGTTTTTT ACAAATAGTG TATTCCATTC TAAAAATGGA AGTAGCAGTG 56640 GTGAACAAGA AAACAACCCT CTGAGTTTTG TCTATTTCAG GAGGAAGTAC TACTTTCTCC 56700 AATTTTAATC ACAATTCATA AAAAAGAAAA ACCTAACTAG CTAGATCTTA AATATACAAA 56760 TACATTAACA ATCTAGTAAA GCAACAGAAA AAGGTAAACA AACTAACCAG CCTATTTTTG 56820 TCTGGAGAAA CCCCAACAAA CTGCTGGATT CCTTGGCCAT TTGCATTCAG AAGTACCAAA 56880 AACTAAAATC CTTTTTACTA AATAATTTCT TCTACACGAG ACTTGTTTCC TCCACACCAC 56940 CCTATCCAAA TTGTCAGCAT TATTCCAGAA TATAATCATT TAGTTTGAGA CCACTAAAAA 57000 57060 ACCCGCAGT CCAAAATACC AATTGTGGTT TTTCTGTAAA GAAATGGTCA GAAACTACAA ATTGTTATCC TAGGACACAG AACCAATCGA CCAAAAGGAC TTCTGGAATA TGCTGCCCCC 57120 AAGATTTAGA ATGCACAGGC AGAAATAGCA TACGCGGTCA CGATGTCCCT TAAGCCACAT 57180 GACCTTCCTA CGAAAGCAAA GGCTTAAACT TATCAAATGA GAACTCCCCC TTTCTCTGAA 57240 GTTAAAACAA GGCAGGGCAG CTGGAATTAG AGCAGCAGGG ACAGATCGGC TGTTGACTAG 57300 TCAGAACGGG TCGTGGAATG CAAAGTCCCT GCGCTTTCGC TGCTCCCCTT ACCGTGAGAA 57360 GATCTGGGAG GGAGGAAAGG AGGAGAAACA CCCCAGAATC CTGGTAGAAA AGCCCCTGGC 57420 CTCGAAGATG GGCTCTAGGG AGACAGGGAG GGGCAGCTCC GTGTGTGATG ACCCTTTGTG 57480 57540 AACATGCACT CTGTGGCAGC TTCAGCTCCA CCGAGGCTTT GGGAGAGCGG ACTACGGATG CCCGCCGC CCCAGCTGTG AAGGCCGCGC CGCCGAGAG GGTCCATGGC ACCCCCGCCG 57600 GCTTCGGAAG CCCTTCCCTC TCCCACCTCC GCGGGTCACC CCAGGAACCA GCGGCTCCCG 57660 ACCACGCTCG CGCGGACCAC GGAACAGCGA CGCGCAAGCA GGTCTCTTTC GTCAGCGTAA 57720 TCCCTCCGCA GAAAGCCGCG CACTAGTTTT AATCACGCCC CACCCCCTGG CCGCTGGCGC 57780 CACCTCCGCC ACTCGGGCGC TTTCCAGCAG CTTCCAGAAA CGTCGCCTCC CCAAACCCAG 57840 CCACTCACAC ATGGCGGGCT CAGCAGCCAC CGGCCCGCC CCTCCTCGTC GCCGCAGTCG 57900

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CAACTGCGTC TGCGGCCACA GGGCGGACAG CCACGCCTCT GCGGAGGGCG ACCGGAAGTG 57960 CTCACGTCTT CACCTTCCCC GCCACGCCAC CGTCCTTTCA GGCCCAGCGT GCAGCAGGAA 58020 GGAGGACTCT TTTGCCGCGG ACTCAAGCCG GAAGCCGCCT TCCTAGTGGA GACGCGAGTG 58080 GGGGAGGAGC AGTCCGAGGG GAACGTGGGT TGAACGTTGC AACTAGGGTG GAGATCAAGC 58140 TGGAACAGGA GTTCCGATCG ACCCGGTACC AAGAAGGGGA GTGCCCGCGG CAGGTAAGGG 58200 AGAAGAGGGA GGGGTTTCTT TCCGCTCTCG AAATTGGGAA AAGAGACAGA GCTGGGATGA 58260 58320 AAGGTTGATG ATTAAGGTAT AGAGTTGGAC TTACAGATCC GTTTGGGCGC AGAGAGGTGA 58380 58440 ACGCTGAAGA GAAACCAGAG TTTGTTTTCG TTTTCCAAGG AGCGTGGAGA TGGGCAGGGT TAACGGACCC TGCGCCTCCT TCGGCTTCTT AGTTTGGGTG TTGAAACTCA CCTCCTTTGG 58500 TCCTGTTCGT CTCTGATTCA AGACAGTTGG GTTTGGTACC TGACAGGGCT GGGTGCAGAA 58560 AGCTGACCCT GTTCCTCGGC TTCCAGGTCG GTTGTGGCCT CGCTTTTGAC AGTTCACGTG 58620 CCGAGCCTAC TCGCTCTCGG AGGGCGAGCT CAAATGGGTG GGTTTAAGGC CCCCTCTTCG 58680 AACAGCTGTT TCCCTGGGTT TCTCCATTTT GCACACAGGA GTGTGAATTA AGTTTAATTG 58740 AATACTTTTT GCGATTCCCA GGGCCACCTT GACACGTTCA TTGTGCTATC TAACTGGGTT 58800 CATGCTGGGC TAATAATTCA CATTAAGGCT TCTGGAGTAT AAGTGGTTCA CAGAAGTATG 58860 AAAAGGGGAT GTTAGAAGAA AGATGCTGGG GGTGAAGTAG AGTTGAGGAA GACAGAACTG 58920 58980 GAAAGCTAGG TTGGTTTCAC AGTACAATGA GCTTTAGGTC ATAATACTAC CTTTAGGTTA TATTGGGCTG TTTGGACGGA GTTTGCTGTA ATCAGGCTAG AGTAAATAGA GAATTTTAAA 59040 CTAAGCATTG ACAGGCTCAG ACTTGTAGAG GCATCATTTT GACAGTGATA TGGAAGGGAA 59100 AGAGGTAGAG ATTTGAGACC TTTCCAAAGA ACTGTCCACA GAATTTGGTG ACTTACTGTG 59160 59220 CGAAGAGGGA AATAAAGAAT AGGGAACAAC TCAAGACTTT CTAGTCTGTG TGTTTGGAAG 59280 GATGGAGACG CCCACATTTA AGTGAGATAT GGGAAGGAGG AGCAGATTGT TTTTGAAGGG 59340 AGGAAGACA GTTACTTAGG GTCAAATTAA GTTGTAAAAT CCCCCCGGG ATTTTGTATG TAAGTCAAAG TGAATTGTAT TTGGAAGAAG AACTGGGGAG CCCACCTCTG GTATTTTTTT 59400 TATGTCCCTC ATATGGACAA ATAAACCTCT GGTATTAAAT GAATTTTCTT TTGGGGGATT 59460 CTATATATTC GGGATTTCAA CCACCAACCT ATCTGGTTTT TCCCGCTGAA ATGTTGGGTG 59520 ATGGAATCAG GAGAGCAGAT TTGGAGACTC TTTATATTTT ATAATTGAGA GAGACAAAGA 59580 59640 GAAAACCGTT TGATTTGAAA AAGTTTTCTA GGTTCCCTCA GGTAGATGGA AATTTTCATC AAAAACAGTT TATTCAAGGT ACATAGCCTA CTAGTTTCCC ATTTGAGAGT ACCGCAGAAT 59700 GATACGACGT GTACTGCTTC TCTACGCAGA ATGAAGTATA AAATTAGCAC CAAATAGTAA 59760 CTTTAATTTG TCAGGTGCTA AACTTTTTAC ATGCTTTATC TCATTTAATT CTTAGAAGAA 59820 ACTAATTTTA CAAGTAAGTG TCTGGACCAA CATCTGCAGG TACAAAGCCT GAAAAGCGTA 59880 AGTTTGACTC CTACATAGTT CTCTTTTGTA AGTAGATTAT AAATAGAACC AGCCAAAGGT 59940 AATAAGTTGT CTGTGCCTAA AAAGAAAGAA AAAAGTTAGC ATCAGTAGTT CTCACCAGAA 60000 GGGGTGATTT TGCTTACCAG GGGACATTTG GCAAGTCAGG AAACTTTTGG CTGTTGGATC 60060 TAGAGGGTAA AGGTCAGTGA CGCTGCTAAA CATCGTCAGT GCATAGAACA GCCTTCACAA 60120 ACAATTATTT GGTCAAAGAT ATTTGTAGTG CTGCAGTTGA GAAATTTCTG TCTTATGGTT 60180 ATTTCTTCAG GAATAGGAAA TTAAGATTCG CCGATACTTT CTTTAAAAAG CAGTTTTATT 60240 60300 TTTGAAATTA TTCCTTGGCT TGAAAGGTTT GTGAAGTTTA TATAGCCGAA CCAGAATAGC 60360 GTAATTAGAT TTTAAAGTGA ATTGTGAGCC ATCGATTCCC AGGAGATGGG TGTCATAGAA TCATGGATTC TTGGATTTGG GAAAGACTTA TGCCTAGAAT TATTTTACAA CATTTCTGCT 60420 AAGTGGTAAT TCTCCTCTGC CCTAAAGGTC TCCTGTATTT GATTTTCCTA TCATTGTGAA 60480 CCCACAATTA AAATGCTCTT AATTATTTTT TGCTTACACT GAGCTCCGGT CTCTTGTAAT 60540

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TTTTACTCTG TTAAATGTGG TTCTGCACCA TAGGACTGCA CTCAAAACAA GCTTGCCACA 60600 TATGTAATTT GTACTAGGAC AGTGTTTATA TTTTTGTTCA GATAACAAAA TAAGTTAAAT 60660 GTGGTGTAAA TTAGATCATT TACAAATAAT AATTTGTTAG CAGCTTTTAA TAAGTAGTAT 60720 TTTTCCCAAC TGGTGAAGTA TTAATGTTGG TAGTTGAAAA CAATAGGAAT GTATGGAATA 60780 TATGGTTCAC TGGTTCTTTT GTTCCTGTCA AATAGTGGCA CAATGGATCT GGGGTTTTTC 60840 60900 TCAGTATAAT GCTGGCATAT TTGTTTCAAA TTGTACATAG ACTCTAAAAA GTTAGGCTTT CAAATTCTGG TCAATATAGT TTGCTTTAAA TAGTAGCTGC CTCTACTACA AGTTTTATTT 60960 AATTTGTTGA CAAATGAGTC TGCTATGAAA ACCGGTCCTG TTGCCAGTCA CTACCCTCTG 61020 TTCACAAATT TGCTGGGTTT ATAAATATAG GTATCATTTT CACTTCAAGA TTATAATTTT 61080 AGAATATGTT TATTCTAGGA CATATAGCCC TCAAAATCTG CTTACTATAT ACGTCTTATA 61140 AAATAGCATG GTTCTTTTT ATAGTAAATA GAATTTTTAT TTAATTGTCT ATTGACTTTT 61200 TTTTCCAGG GTTCATTGAA AAAATCCTTA GTGATATTGA CATGTCTCAA GTGACATAAA 61260 TTAGCCAATG ACTCGGAATG ATGGATTCTC CGAAGATTGG AAATGGTTTG CCAGTGATTG 61320 GACCAGGGAC TGATATAGGG ATATCTTCAC TCCACATGGT GGGGTATTTG GGAAAAGTTA 61380 GTGAACTTAT TTTTTGCCTG AGTGCAAAGT TTTTTTTTT TCTCTATTTT TGAGACTTAA ATTCAATTT GATGTTACCA GTTAACTTCT AAAAAATTGT GTCTTCCACG GAAATCTTAC 61500 AGTAATGGCG AAAGATTGTT TTAATGTGTT TACCTTTCTG TGTTTTATTG ATACATGAAA 61560 GTGGAAATAA AACATAGACC TTATGATTTA CTGTTCTTTG AAAATATGGT ACATAAATTC 61620 61680 TCCCGGGTAA TTGATGTTAC TTTTTTCCTT GCAAATAAAA TTGATACTAT TCTTAACACA TAAAATTTAA TATTTAAAAC TATAACATAA TTCTTTTTGG AATAATAGCT GTATTTAAAG 61740 GCTTATATGC ATTTCTTTTG TTTGCCATGT TTAAAATACC TTGTCAGGAT ACTTGTAATT 61800 GAAAATTATA ATTTTTTCTG GTTACCTTTC CATTTAACTT TTAATATTTT GATATATTCT 61860 AGGAATGTCT ATATTTTAAT TTGCTTTATT TCTCTTTTAG AATTTTGATT CAGCTAAAGT 61920 TCCATCAGAT GAGTATTGCC CTGCTTGTAG AGAGAAGGGA AAGTTAAAAG CCTTAAAGAC 61980 TTACCGAATT AGTTTTCAAG AATCTATCTT TTTGTGTGAG GATCTGCAGG TAAAGTATTA 62040 ATCTTATATA GTATATATAA GATTTTTCTT TTTTCTTTTG CTTTTTATT AATTGTTTTA 62100 AAAGTTTACT CATTTTTTGT TTTTTAGACT AGATTTTTAA TATGTAATCT CAGTTTGTAA 62160 GTCTGTCTGG TATACAATGT TATTTTTCCA CCTACCTTTA CTTGGTTGCG TAAAGATGTT 62220 CGTTTTTATT GCCATTTGAT TTGCGAGAGG AGAAAATACA TTTCAAGGTT TTTTTCTTTT 62280 TTTTTAACCT TTTGGAGGTC CTTGTTAGCT ATTAGCATAT AGTAGTTACT CTCTCATCTC 62340 TTTGGTTTAT CTTTGCAACT GATGGGAAAA GTTATGAATT TCTAATGTAC CTGGAAGAGT 62400 ATTTTGGAAA TTGGTTAGTC CAAAACCAGT ATATATACTC TGAACTAAAG AGAGTATAGA 62460 ATCTTGTAAA TTCTAAAAGA TCCTTTTAGA AGCTCTAAAT CGCTTTTAGA ATTATAGTAA 62520 TTTGTACCGA CTGGTACGGC TTTTATATAG CAGCTCATTA AATTCTGTAA TACTCCACAT 62580 TTTATTGTAT TTGACAGTTT ATGAGACTGT CTCATACACT TTTAATTCTC AGAACTTTGC 62640 AAGATTTGTA TTCCTATTTC ATGAATAAGA AAATAAATTG ATTTCAGAGG GTTTGGGAAC 62700 ATAAGATCCT GATACAGTGG CAGAGCTGTG GTTGGAATAC AGACTTCTAA TTTCAGATCT 62760 GTTTATTCCA GCAAAAAATT AGCAGTTCAT CAGAATTACC TGGAGTGCTT TTAATAAATT 62820 TCTGAGTATC ACCCCAGAT GCTGATTCAA TAGAGTTGGC CCAGAATTCT GTGGTTTTGT 62880 AACATTTGAG GATGAGTCTG ATCATCATCA GCCAGGTTTG GAAAATACTA GACTAAATCA 62940 CATGGTTGTT AATAGATACT TATGCTGGGT ATAATTTGAA GTAAAGTAAT CCCAGGCGTG 63000 TCTACAAATA TAAATTTCTT TATGTTTATA TTCAGTAATT TTTTTTATGA GTGTCACTGT 63060 TTGGCACTGT TGCAGATACA ATGTTAGGAT ACAATAATAA AACAAAAATT TCTTGCCCTT 63120 AAGGAAGTTA TGTCATAGAG TGGGAAAGAC AGTGAACAAG TATGTGTTTT TCTGTCAGGT 63180

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GATAAAAAGT GCTGTGGAGA AAAATAAGGC AGTAGGGACT GGAATGCCAA AGTAGGGGGA 63240 GTTTGCAATT TTAAATAGGA TGGTGAGGGG AACGCTTCAA TGAAAAGTGC AATTCGAGCA 63300 AAAGCCTGAA AGAGGTGAAG AGCAGTGAGC TTTCTAGGCA GGGGAAGCAA GTTCCAGGAA 63360 GGCCCTGAGA GAATGGAGGC TGCCTGTCAT GTTTGTGCTA CTGCAATGAA AGCAGCAGAG 63420 CGATAGAAGG TGGATCAGAA AAATAATGGG GGAGCTGGAC CAAGTAGGGT CTTATAAGCC 63480 ATTGTAAGCT TTCTGGCTTT TACTATGGGT GAAACCAGGA ACCATGGCAG AGATGTTGGC 63540 AGAGGAGTGA CATAAGTTGA CTTCAGTGTT AAAAGCATTA CTGTGGCTGC ACTGTTGAAA 63600 ATATATGTAA TGGGCAAGAC CTGAAGCAGG GAGATTAGTT ATAGTATAAT ATGAATTATA 63660 TTTGGTCCTT GTCTATGGTT TCCGTTACAG AGCTAAAAGT CTTGGAATTT CCTGAATGAT 63720 AAGAGTGTCC TGTTATTCAG AATGAGCCTG TTTGCTAACA CCGGGGTTCA TACTATTGTG 63780 GTGACTTAGG ATGGAGCCGT AGATAGCCTC AGATGGGGCA AGTAGCTGGA AAGACCACAT 63840 GATTAGAGAA TTAACGGGTT AGAACTTTTA GCCCCACGTA CAGGCCTCCA GGAAAGGAGT 63900 GGAGGGGCTG GAGATCAAGC TGTATAAAAA TATCAAGATT TGGATTTAAT GAGTGGGTTG 63960 CTGGGGGCTG GTGCCGTGTA GGAGGTGGTA TGCTTAGAGG AAGTGGAAGC TTCATACCTC 64020 TTCTGTCCCA TACCTTGCCC TACTCATTTC TTCATCTATA CCCTTTATAA TATCCTTTAG 64080 GATAAACCAA TAAACATAAG TAAGTGTTTG TTTGAGTTCT GCGAGCTGTC CTTGCAAACT 64140 AGTTATGCCC AAGAAGGGGG AGTGGGAACC TTTGTAGCCA GTCAGTCAGA TGTACTGGTG 64200 GCCTGGATGT GGGATTGGCA TCTGAAGTGG AGGGAGTCAT GGGACTGAGC CCTCAACCTG 64260 TAGGATCTGA CATGGTCTCT AGGTAGATAA CATCCAAATG GAATTGGATT ATAGGATACC 64320 CATTTGGTGT CCTCTGGAGA ATTGCTTGGT GTGGGGAAAA AGCCCCCACA CATCTGGTCA 64380 CAAAAGTGTG CTGGGAGGAT AGAATATGTG AAAATTGTCA TAATCAAAAT GGAGTCACTT 64440 GTGTTAAAAA AGAAAAAAA ATCCTGACTG GCCAGGCACA GTGGCTGACA ACTGTAATCC 64500 64560 CAACACTTTG GGAGGCTGAG GCAGGAGGAT TGCTTGATCC CAGGAATTGG AGACCAGCCC 64620 ATGCAACATA GTGTGGCCTT GTCTCTACAA AAAAAAAAT TTAAATTAGC TGGGCATGGT GGTGTGAGTC TGTAGCCCCA GCTACCCGGG AGGGGGACTA CGGGTGCACG GCACCATGCC 64680 CAGGAGGTCC AGGCTGCAGT GAGCTGTGAT TGTGCCACTG CATTCCAGTC AGGATGACAG 64740 AGTGTGAGAC CCTGTCTCTA TTAAAAGAAA AAAAAAAGAC AAATAGATCC AGGAAAGGCT 64800 ATGAAGAGAG AGCTTTCATG CATAAATACC AAAATATCTC AAAAGACTCT GCAAAAACCA 64860 CACCCTTGCA CAAAGGCCAT CATGAAATAC TTCTGAAATA CACAGAAAAT ACATCATGAA 64920 ATAAATACAC AGAAAATACT TCTGCAAGGA CATCTGCCCA GCAACTGCCT GGTCCATCTG 64980 TGGACGGGTG TCATCCTTGT TATTGATCCT TGTAGCCAAG GGTAATTATC TCAAAACAAG 65040 TATGTGATCC TCCTTATTTT CCTTTAAAAA CCTTTTGTCT TCCCTTACCT CCCTGAACAC 65100 ACACAGTTTA CTATGGCATG TGTATTCCCA TTGGAATACT TTATTCCTGA ATAAATGTCA 65160 CTTTCTTTT AGAAGCTTCT CTTTTCTTTT TATTTAGATT GATAAGTAGA AAGGAAAAAA AGCTTTTTC CCTTTGGACT AGTTGAAGGC AGTTGCAGTA TTCTGGGGGA GAGGGTGGTG 65280 GCAGAGGTGT TGAGGCATGG TTGGAGTTTA TTTATACTTT GAAGGTAAAG CCAACAGGAT 65340 TTGCTGAAAG ATTGGGATAT GGGGTTGGAA AGAGGAATCA AGGATAGTTC CAAGATTTTT 65400 GGCTTGAAAA ATTAGAAGAA TGGAATCGTG AATTACTGAG CTGGGAAGAC TTGGAAGAGC 65460 AAGGTTTTGG GGAGAAGATC AGGACTGTAA GAATAGAGAA GTCCTTGTCC CCAGGAGTTA 65520 GGTTTTTGGC TATTAAAGTT AGATGTACTA CATAGATTTT TAGTTGGTTT TTTGTTTTT 65580 GTTTTTTTT TTTTTTTT TGAGACGAG TCTCGCTCTG TCACGAGGCT GGAGTGCAGT 65640 GGTGCGATCT CGGCTCACCG CAACCTCCGA CTCCCTGGTT CAAGGGATTC TCCTGCCTCA 65700 GCCTCCTCAG TAGGTGAGAT TACAGGCATG TGCCACCCAG CCCAGCTAAT TTTTGTATTT 65760 TTAGTAGAGA CGGGGTTTCA CTATGGCCAG GATGGGCTTG ATTTCCTGAC CTCAGGTGAT 65820

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CCACCCACCT CGGCCTCCCA AAATGCTGGG GTTACAGGTG TGAGCCACCA CGCCCAGCCC GGAGTTTTGG TTTTTGAAGC ATTCTTTTTC AAGTGATAAA GCAAAAAATA TATAATCAAG 65940 AATTITAAGT ATATACTITG GAAATGTTAA AAAGGAACAT GAGTAATTTA TTATTATTTT 66000 66060 TTTAATTTCT AGTCAGCAAT GAGAGCCCAG TGTACTTTAT GAAGTAGATT GGTTTACACC AGGAGTGAGC AGACATTTTG TATGATGCAC AAACAAGGAA TGATTTTTTT GTTTTTTAAA 66120 TGGTTAGGAA AATATCAAAA TAAAAAATGC CAGAAAAAAT CAAAAGAAGG GCCAGGTGCA 66180 GTGTTTCACA CCTGTAATCC CAGCACTTTG GGAGGCCAAG GTGGGTGGAT TCTCTTGAGG 66240 TCAGGAGTTC GAGACCAGCC TGGCCAACAT GGTGAAAACC TGTCTCTACT AAAAATACAA 66300 AATAGCCGGG TGTGGTGGCA TATGCCTGTA ATCCCAGCTA CTTGGGAGGC TGAGGCAGGA 66360 GAGTCGCTTG AAGCCAGTGG CAGAAGTTGC AGTGAGCCAA GATTTGAGCC ACTGCACTCC 66420 66480 ATAAATCAAA AGAAGAATAC CCTTTCATAA TATGTGAAAA TTAAATGAAA TTCAAATTTC AGTGTTCATA AATAAAGTTT TACCGGAACA TAGCCATGCT CAATCATTTA TGTATTGTTC 66600 ATGGCTTCTT TTGCATACAA CAACAGAGTT GGGTAGTTGT GACAGACTAT GTAGCTCATA 66660 AAATCTAAAT ATTTATTATC TAGCCCTTTA TCAGTAAACT TTGCTGATCC CTGTATAAGT 66720 CCTCTGAATC AAATTATTTC CAAAGAGTTC CGTTATAAAA TTTGGAGTTT ACTCTGCTGT 66780 AAATTGCAAA GAACCATTTG GAAAACCTCT TTTAGTCAGG TATTTACATT AAAATGTTCC 66840 TTGATTTGTA AACACTAATA TTCAAGACTG GTCCAAAATT ATACCAAATT GAAACTCTCA 66900 66960 67020 AGCGTTTACT TTGGAACATT TAATTAGTCT TTTTTAAAAA CCCATGAAAT TTATAATAAA AATTTTAAAT CATTAATGTT GAGTAATCAA AGAAAACTTT TTTTGTTTTC TCCATTTGTA 67080 AAATGAGTAC ATTATTATTA TAATTTGTCT TTGGCCATAC CTTGTTGATA ATTACTTATA 67140 CAAGTATAAG AAGACATGGT ATGTTTTCCT TTTTCCTATT TCACAAGAAT AAGTACAGGA 67200 ATTTACTTAA GCTGCTCCAA AACTCAGTGA AAGAGACAGG ATTAGGTTTT TTTCAGCATT 67260 GGATTTTAAA TGATACTAGA TGGTTGCGCT GGGCTAAAAT ACTAATGCTT TGTGTATATT 67320 TTTATGACTT TTTTGAAGAC AGCTTAAAAG CTTTATTCTA GTTATAAAAA TGATACATGT 67380 TCACTGTAAA TAGAAACAAG TCAGGTATAC AGAGATACAA ATATTTAGAA CATGTGGAAA 67440 GAGGCAACAA AATTTTATAA AAAGAAAAAA GATAAAAATC TGAAATCATT AATTTATAAG 67500 GGAAAAATCA GGGCAAGGAC AAATTATATT ACAGATTGGC CTATGGTGGG AGCACAGATT 67560 ATATAGAGAA AAGTCAGTGA AGACACTTGC GAAGAGTGTG GGTGGAAATC ACTAAGTTTT 67620 67680 67740 ATTCCTTTGG AACCAAGGGT TTATTATGTT TTGAATAAAG TAGAGGTGTA AGTAGGATGC ATATACCATG ATCTTGACTA CTTGAGATTC ACAAAGGGTT TTCGTCTCAG GATTTTTTTT 67800 67860 TCTCTTAAAA AAATTTGTAT TAATTTTTAA ATTGTAAAAA AATTCATCAA CTTAACCATT TTTATGTATA GAGTTCAGGA GTATTAGGTA TATTCACTTG TGCAGCAGAT CTCTAGAACT 67920 67980 TTTTTCATCT TGCAAAACTG AAACTCTGTA CCCATTAAAC AACCACTTCC CATTTTCCTC 68040 TCCCCCAGCT TCTGGCAACC ATTCTAGTTT CTGTTTCTTT TCTTTTTTT TCTTTTGAGA TGGAGTCTCT GTCGCCCAGG CTGGAGTGTA GTGGCATGAT CTCGGCTCGC TGCAACTTCT 68100 68160 GCCTGCGGGT TCAAGCAGTT CTCCTCCCTC AGCCTCCTGA GTAGCTGGGA CTACAGGGGT GCACCACCAT GCCTGGCTAA TTTTTTTTTT TTTTTTTTT TTTGTATTTT TAGTAGAGAC 68220 GGGGGTTTCA CCATGTTGGC CAGGCTGGTC TCGAACTCCT GACCTCAGGT GTTCTGCCTG 68280 CCTCAGCCTC CCAAAGTGCT GGGATTACAG GCTTGAGCCA CTGTACCCGG CCTCTAGTTT 68340 ATGTTTCTAT GAATCAGACT CAGTACCTCA TATAAACGGA ATCATACAGT ATTTGCCTTT 68400 TTTGTGACTG GCTTATTTCA CTTGGCATAA TGGCCTCAAG ATTCATCCAT GTTGTAGCAT 68460

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GGATGAATAT ACAGTTAGGA GTTCCTTTTC TTTTTTAAGT CTTAATCTCC AGTTTATTTC 68520 68580 TGTTTATTTA TTTATTTTAT TATACTTTAA GTTCTGGGAT ACATGTGCAG AACGTGCAGG CTTGTTACAT AGGTATACAC GTGCCATGGT GGTTTGTTGC ACCTGTCAGC CTGTCATCTA 68640 CGTTAGGTAT TTCTCCTAAT GCTATCCCTC CCCTAGCCCC CTACCCGCCG ACAGGCCCCG 68700 GTGTGTGATG TTCCCCTCTC TGTGTCCGTG TGTTCTCATT GTTCAGCTCC CACTTACGAG 68760 TGAGAACATG CGGTGTTTGG TTTTCTGTTC CTGTGTTAGT TTGCTGAGAA TGATGGTTTC 68820 CAGCTTCATC CATGTCTCTG CAAAGGACAT GAGGAGTTTC TTACTTTTAA GGTTGAGTAA 68880 TATTCCACAT TATGTGTATG CCACATTTTC TTTATCCATT CACCTATCTG CAGATGTTTG 68940 AGTTGCTTTC ACTTTTTGGG AATTGTGAAT AATGCTGCAG TGAATGTGGG TGTGCAGGTA 69000 CCTTTTCAAG ATTCTGCTTT TGAGTTTTTT TTGGATACGT ACCTTTTTAT GATGCTTTAA 69060 ATACATATAT GCTATTTTTA AAGGATTCTC AGTTTTCTGA CATATGATAG GACTTAGGAA 69120 GTAATCTCAA AGCATCATGT TGACAGGTTG TTAGTTGATG GTGACTGCAG CTAGTTGGAA 69180 AGTCAGAAGA ATCTAGAACT TGTCCATTTA TACTAAAGAA TTTCATAGTA AGTGCAGTAT 69240 TATGAGTGTA ATGTTCAATT GGTAGAAGAG GCTATCTGAG GGGATTTAGT GCATTTCAGT 69300 TATCTGTTGG TGTGAAACGA ATCACCTTGA AACTTAGTCG CTCAAAAATT TTAATGGTGG 69360 CTGGGCATGG TGGCTCACAT CTGGAACTCC AGCACTTTGG GAGGCCGAGG CAGGCAGATT 69420 GCTTGAACCC AGGAGTTTGA GAGCAGCCTG GGCAACGTGG TGAAACCTTG TCTCTACAGA 69480 AAATACCGTG GCAGGCGCCT TTAGCACCAG CTACTTGGGA GGCTAAGGTT GTAGGATCTC 69540 TTGATCCCAG GAGGCAGAGG TTGCAGTGAG CTGGGATCGT GCCACTATAC TCCAGCCTGG 69600 ATAACAGAGC CAGACCCTGT CTCAAAAAAA AATTTTAATG GCTCCATTTA TTATTTCACA 69660 TGATTATGTG AGTTGACTAG GGAATTCTTA CACATCACAC CATGTCAGCT GGGACAGCTG 69720 AAATGTCCAC ATGGCTGGCA GTTGGTACTA GCTGCTAGCT GGAAGTTGAG TTCAAATAGT 69780 CAGCCAGGGG TCTCAGTTAT TTTCCATGAG GTTCTCCCA TGAGGCCAGC TGGGCTCTTC 69840 ACAGTGTGAT AGCTGGGACT AAGAAGGAGT GTTCCAGAAG AAGGGCTTGT CCTCTTGAGC 69900 CAGTGCTTAT CAGGCCTCTA TGTATATCAT GTGTGCTAAT GTTCCATCAA AGCTAGTCAC 69960 AGGGCCAAGC CAACTCTGTA CAGTGTAGGG ACTGGCTGCA GGAGGGCATG AATTACCAGG 70020 AGGTGTAGTT CTCTAGTTCA TAGGGAGGGC CATCAAGATA GTAGTCTACC ATACTTGTGT 70080 AAAAGAAGGC ATTAATTAAC TATTATTATT ATTATTATTA TTATTTTAGA GACAGGGTCT TGCTCTGTTG CCCAGGCTGG AGCAGTAGAG TGGGGCAATC ATAGCTCATT GCAGCCTCCA 70200 ACTCCTGGGC TTAAGCAATC CTCCCATCTC AGCCTCCCAA GTAGCTGGGA ATACGGGAGT 70260 GTACTGCCAT GCCCACCTGA AAAAGAAGGC ATATTTTAAA AGCAGACCTT TAGTGTAGAG 70320 GGTTCTTGAA TTTGTTATTT AAAATATTCT GGTAGTTTTT AAACTTAGGA AAGACCCACT 70380 GATTCTTTTA GTGATATGTT TACATTGTTG TTATTTGGCA TAAATTGTGT TAATGCACAG 70440 TAAGATTTCA TGAAGTCATT AAAATTCAGC CACTTGGACT CTAAACCCAA TAAAGATGTA 70500 AAACAGCAGT GCTATGAGAT GCATATTCAG TTTCAAAATA TAGGAAACAC AGAAATTACT 70560 CTGTGCACTT TTAATTTGAA AATACTTTTA AAATGTGTAG TATAATGTAG TGTCTGTCCC 70620 AAAAGAGTAA CATTCATTAT AGTGTTTCTT TACGTTGTTG AAAATTTTAA ATTCACTTAA 70680 CATTAGATTT TTATTAAAGC AAAAATATGT TTTCCTTATT AGCTTACCCT TTTGTAACTC 70740 AGATTAAACC CTTGATTGTT CAAATTAACC TGAAAAAAAT TATTCTTTTG GAGGCCAAAC 70800 TTTTGATTAA GTAGTTGTTT GTCTCTAATT TTTTCAAATT TATGTGTATA AATATAACCT 70860 GTCATCAAAT CAATGCTAAC ATTCTATACA TGTTTTTCAT GATATGAAAA CTATAAAACA 70920 TGAAGTTATT TGAATTTGTG TAGTTTTTAT CATTTTATTT TTACTTTCCA GTGCATCTAT 70980 CCTTTGGGCT CTAAATCACT TAATAACCTA ATTTCTCCTG ATTTGGAAGA ATGTCACACT 7 1040 CCACATAAGC CTCAGAAAAG GAAGAGCTTA GAAAGCAGCT ATAAGGATTC ACTTCTTTTA

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GCAAATTCCA AAAAGACTAG AAATTATATT GCTATTGACG GTGGAAAAGT TTTGAACAGC 71160 AAACATAATG GAGAAGTATA TGACGAAACC TCGTCAAACT TACCTGATAG TAGTGGTCAA 71220 CAGAATCCAA TTAGGACAGC TGATTCCTTG GAGCGGAATG AGATTTTGGA AGCTGATACT 71280 GTTGACATGG CTACTACAAA AGATCCTGCT ACAGTTGATG TCTCTGGAAC TGGCAGACCT 71340 TCCCCTCAAA ATGAAGGATG TACATCTAAA CTGGAAATGC CACTGGAGAG CAAATGTACA 71400 TCATTTCCCC AGGCTTTATG TGTCCAGTGG AAAAATGCTT ATGCTCTCTG TTGGTTAGAC 71460 TGTATCCTGT CAGCTTTGGT GCACTCGGAA GAGTTAAAGA ACACCGTGAC TGGACTGTGC 71520 TCGAAGGAGG AATCTATATT CTGGCGGTTG CTTACAAAAT ATAATCAAGC AAATACACTT 71580 CTATATACCA GTCAATTGAG TGGTGTTAAA GGTTGGTACT AATATTTTAT TTTTATTTAC 71640 TTATTTATTC ATCTGGAGTC AGGGTCTCAT TCTGTCACCC AGGCTGGAGT GCAGTGGCAT 71700 GATCATGTCT CCTTGCAGCC TTGACTTCCC TGGCTCAGGT GGGCCTCCCA CCTCAGTCTC 71760 CCAAGTAGCT GGAACTACAG TCGTGCACCA CCATAGCCAG CTAAGATAGT GAGATGGTGG 71820 CCCCACTGTC TTGCCCAGGC TGGACTCGAT TTCCTGGGTG CAAGCACCCT TCCCGCCTCA 71880 GCCTCCCAAA GTGCTGGGAT TACAGGCATG AGTCACCATT CCAGCCTACT TGTCTTTAAT 71940 TCTTAAAAAT ATTAATGTTG AGTTTTGTCT CCCAGCATGT GGGAAAGATG TCATCCATTG 72000 CTTCTGTTTC CTGGAGGCCT GGGAGCAAGG AGCCCAGGAA CAGTATCACG AAGCTTGAGA 72060 TAATACCAGT TACATTATCC TGACTGCCCA AAAGGCAGTT TTTTTGTTTT TTTTTTTTT 72120 ACTITAAGTT CTGGGGTACA TGTGCAGAAC GTGCAGTTTT GTTACATAGG TATACGTGTG 72180 CCATGGTGGT TTGTTGCACC CATCAACCCG TCACCTATAT TAGGTATTTC TCCTAATGCT 72240 GTCCTTCCC AACCCCTCA TTCCCCATCA GGCCCCAGTG TGTGATGTTC CCCTCCTGT 72300 GTCCATGTGT TCTCATTGTT CAACTGTCAC TTATGAGTGA GAATATATGG TGTTTGGTTT 72360 72420 TTTGTTCTTG TGTTAGTTTG CTGAGAATGA TGGTTTCCAG CTTTATCCAT GTCCCTGCAA AGGACATGAA CTCATCCTTT TTTATGGCTG CATAGTATTC TATGGTGTAT ATGTGCCACA 72480 72540 TTTTCTTTAT CCAGTCTATC ATTGATGGGC ATTTGGGTTG GTTCCAAGTC TTTGCTATTG TGATTTTTT TTTTTTTTT TTTTTTTAA GACAGAGCCT CACTCTGTTG CCCAGGCTGG 72600 AGTGCGATGG CATGATCTCA GCTCACTGCA ACCTCCGCCT CTCAGGTTCA AGCAATTCTT 72660 CTGCCTCAGC CTCCCAAGTA GCTGGGACTA CAGGCGCCCA CCACCAGGCC CAGCTAATTT 72720 TTGTATTTTT AGTAGAGACA GGGTTTCACC ATGTTGGTCA GGCTGGTCTT GAACTCCAGA 72780 CCTCATGATC TGCCTGCCTT GGCCTCCCAA AGTGCTGAAA TTACAGGTGT GAGCCACCAT 72840 ACCTGGCCTA GGCAGTCTTT TTCAAAACTC TAAGACTGTG CTTGTGTCTC AGGGTGTCAG 72900 GATAATAGTG GTTAGTTTTA AGTGTTTAAA CTACTGAAAA GCAGAATGAA GAAGTGAGTA 72960 AAAATCACCC ATAATCACAC AACCTCCTAA GATCTCTTGG CACAATAAGG GATATGTTTT 73020 73080 TCATTTTATT CTCTGTAAAA TAGGATACTT ATGAACCCAC CTCCCAACAC AGGAAGAATT 73140 CCCCCATAA GTAATCATTA TCTGAAATGT GTTTCATCAT TCCATCTTTT CTTAGTTTTT 73200 CTTACATGTG TTTATCTAAA CAGTATACAG TAGTCTCCCC TTATTGTAGT TGTACTTTTC 73260 TTGGTTTCAT TTAACCCGAG GTCTGAAAGT AGATGAGTAT AGTACAGTAA TATATTTTGA 73320 GAGAGAGGGA GACCACATTC ACATAACTTT CATTACAGCA TATTGTTATA ATTGTTGTAT 73380 TTTATTATA GTTTTAATCT TACTATGCCT AATTATAAAA CTTGATCATA GGTATGTAGT 73440 TATAGGAAAA AGCATAATAT ATAAAATGTT TAGTTACTAT CCAAGGTTTT AGGCATCCAC 73500 TGGGGTCTTG GAAGGTATCC CTCTCAGATA ATGGGGGATG GATGGTACTG AACCCTGTAT 73560 ATACAATGTT TTTCCCTATA CATACATAAT TATGATCAAG TTTAATTAAG AGTAAATTAA ATGTGGGCCA GGTGCAGTGG CTCACATCTG TAATCCCAGC ACTTTAGGAA GCTGAAGCGG 73680 GCAGATCTCA TGAGGTCAAG AGTTCGAGAC CAGCCTGGCC AACATGGTGA AACCCCATCT 73740

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CTACTAAAAA ATACAAAAAT TGGCTGGCTA TGGTGGCACA CGCCTGTAGT CACAGCTACT CTGGGAGGTT GAGGCAGGAG AATTGCTTGA ACCCAGGAGG TGGAAGTTGA ACAATCACTT 73860 GAACCTGGGA TCACGCCACT GCACTCCAAC CTGCCTGGGT GATAGAATGA GACTCTGTCT 73920 CAAAAAAAA AAAAAAAAA AAAAAGTAAA GTAAATGTGG CTCAACATGT TGCTGTCAGT 73980 TGGAACATTT GTTTCTGATC GTGTCTTCCA CCCACAAATT GAATGCTTTT TCCATCTTAA 74040 CACTTATCAG GCACTGTGGC CATAACTTGA GCAGTTGAGA TGCAACAGCA AAATTAGCAC 74100 AAATTTCTTT TTCTTCTTC GCAGTTTCAT GGATAAGAGA TTTGTTCTTA GATCTCAGCA 74160 ACCTCAGCAT ATGATTTTT TCTTTAAGTT GAGAACTTTG ACCTTTTTAC TTAGAGAAGC 74220 ATTITACAGC TTCTCTTTGG CATATCTGAA TTGCCAGCAT TACTATGCTC GTGCTTTGGG 74280 GCCATTATTA AGTCAAATAA GGGTTGCTTG AACACAAGCA CTGCAATACC ATGGCAATAG 74340 ATCGCATCAC CAAGATGGCT GCTAAGTGAA CCACAGGCAG GAGTGTAGAC AGCATGGACA 74400 CATTAGACGA AGGGAAGATT CACGTTGCCA GTGGAACACA GCAGGACAGC AAGAGAGTTC 74460 ATGATGCTAC TCAGAATGGC ATGAAATTTA AAGCTTATAA ATTGTTTCTG GAATTTTCCG 74520 CTTAATATTT TCAGACCACG GTTGAGTTCA GGTAACTGAA ACCATAGGAA GCAAAACACG 74580 GATGAAGAG GACCACTTCG TATTGCCTAA TTTAGTTTGT TTTGATCTTC TGGGACCTTT 74640 TTTTCTTGTT GTAAAAATTT ATGGGGCTGT TTATAGTTGT GGCTCATTGA TTTTTCATTG 74700 CTACATAATA CTTCCATTTT GTAAATATAA CAGAATATTC ATCTACCTGT CAGTGGACAG 74760 TGGGGTTTTT TTGCCATTAT AAATGCTGCT GCTGTGACCA TTTGGGGGGC AAGTCTCCTG 74820 74880 GGGCACAGTA TGAGTTTCCC TTCTGTATAA CAAAGGAATG GAAAATTATA GACTTTCGTG TCCAAATTTA CAAGATAATG ACAATTGTTT TCCAAAGTGG TTGTACCAAG CAATTCTCCC 74940 ATTAATAGTG TATATAAGAG GTCTTCCTGA TCCATATATT CTTCTTGGTT TATTTTCACA 75000 CTTTTGAGAT TTTTGCTATT TGAGTGGTAT AAAATGGTCT GTGATCTTGA TTTGCCGTTT 75060 CCACATTITG AAGAGGTTGT CGGCTCTATG TGTATATATT GCTCATATTT GTTCCCTCTT 75120 CTGTGAAATG CCTTTTGTAT CTTATCCCTA TTTGTTCTGT TCTGTTGATT GTCACGTTTT 75180 AATTGATTTG TATGAGTTTG TTCCTTGTAT CATTGTTGCT AGAGTTACAT CAGATGTGTT 75240 GCTGAATCTG CTCCCAGTTT GCAGCTTGTG TTTTTACTTT TTAAAAACTG TCTTGATTTA 75300 TAGGGAAGTC TTTATCTTTT CATTTGGAGC TAGTAATGTT TGTGGCTTTT TAAAGAAATT 75360 ATTACTATTC CCAAGGTCAG AAAATCATTC ACCTATATTT TAACTGAAAA GTTATAAAGT 75420 TTTGCTTTTG ACATTGAAAT TTCTCATTCA GTTGGAATTC ATATTGATGT GTGGTATGAG 75480 GTAAGGATCC ATTITTTCC CATTTGCATA GCCAGTTTTT GTAGCTCCAC TTTATTTTCT 75540 CACTTGATCT GCCATGCCAC CTCTAGCATG TATCAACATA TCATGTATGT GTGCAGCTGT 75600 TCCTTAACTC TCAATTTTAT TCTCTTGGTT ACTTTGTCTA.ACCCAGCACT CATACTTTTT 75660 AAATTATTAT GGCTACCTTG TAGGGCAAGA ATCCTCACTT TTATTCAACT TCTTTTGAAG 75720 TGTCTTGATG CATATTTTTT CTGATCTTAC TTGGCCATAT ATATTTTGGG GACAGATGTG 75780 ACATCATACC AAGCTTTCTT TGCTTGACAT TGTAGATATT TTCTTATTCA TTAATGTGCT 75840 AAAAATTTTG AGTTTGGTCA TACAGTCTTT TATATGGATC TTATACATCG TTTCCCTCTT 75900 GTTAACCATT CAGGCTGTTA CTAGTTTTTG CTGTTGTGAA TTAACACCAG GACAAATATC 75960 CATATATCTT TTGAATTAAT TACTGACTAG TTTCCTAGGA AAGATATTAG AATATGAATA 76020 TTAAAGGTCT TGCTGAATAC AGTTTTCAGA ATGGTTGTAC CAATATATAA TTCCATTTTC 76080 ATTATGTAGA AAAAATACCT CAGTGTTTTC TAACCACCTT TGGTTAGAAC ATTCAAGACG 76140 TTATGGTTTT GTTAGGTAAG AAATATTTTG TTTCAGTGTA GGTTTTCTTT GAGACTGAAC 76200 TTTTTGTGT GTGTCAGTCA TTTACAGTTT TTTGCAATTT TTAAAATTCA GTTTCTCACA 76260 AGCATTTTGC CTTTGACTTT TCTTCTATTT CTGCTTTCTC TAATTACAGA AACCCCAGTG 76320 TTAAGTAGGT GACAGTTCAG TTGTTTGCTG CAGAAGAGCA GCAGTTCAAT ATTGGAATTA 76380

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ACTITAATTT TATGTTTTTA ATCTGTTACT AATTTTTTAC AGAATAATTG TAGTTTTTAT AATCTGGTTA ATTATATGTT TGAGCTGCAT TACTTTGCAA TGTAAGTTTT TTTTTTTGGC 76500 ATGGTCAAAT AACAAAAATT CTGGTTAATG CTTATTTCAT ATTACAGGAG AATCCAGATA 76560 TTTCATTAGG GAAACATATA AGCAGAGTGT GATCAGGCTG TATGAATTAT TTATAAGAGA 76620 TGTGAGTGAA AAGATCTATT TGTAGCTTAA GAGTAAGTAG AGTCAGATGC ATGTAGAGTC 76680 TTTTATTCAA AATAATTTTC TTATTAATCT TGGATAGTTT CTTGTCACAG TAATTCCATT 76740 TTGAAGATAA TAAATATTAC CATAAAGAAG TGATCAAAAA CATAGATATG TGTGCCCAAA 76800 76860 GGTATTTATC ACAATAGTAT TTATAATAGT GAAAAAAGAA ACAACTAAAA TGTCTGGCAA TAGGAGAATG ATTAATAAAG CGATGTTTCA GCTGAATATA GTGGCATGCG CCTGTAAGCC 76920 CAGCTACTCA GGAGGTTGAG GCTGCAAGAT GGCTTGAGCC CAGGAGTTAA TGACCAGCCC 76980 AGGCAACATA GCAAGACCCT GTCTCCAAAC ACACAAACAC ACACACAAGT GCTATGTTTC 77040 TTTTGAGAGA GCATCTCACT TGCCCAGGCT GGAGTGCAGT AGTACAATCA CAGCTCACTG 77160 CAGCTTGTAG AACCCTAACC CTCCTGGGCT CAAATGATCC TCCCACCTCA GCCTCCTGAG 77220 TAGCTGGGAC TACGGGTGGG TACCACCATA CCCAGCTTTT TTTCTAAGAG ATAGGGGTTT 77280 CACTATGTTG CCCAGGCTGG TCAGTTTTTA ATGAAGCACA TTTGTGTAGA CAAAGCAGGA 77340 TGTGGAACCG GATAAACACT ATGTTGCCAC TGAAGACCCC TTCAAACCCC TCAAAAATGA 77400 CATAGAAGGG AAATATGAGA TATTAGTTTG GGAAATAATT GTAACTTTAT TAAGACTCCT 77460 77520 TATAAATTTA TCTGTTCCTA TGACCTGGCT AAGTTCAATA AAAGTTACAC AGAGTGGAAT 77580 AAATGGTTAG ACATCATTTG TAGTATAAGT AATTGCACAT AAGGAGGTAA CTTTAGCTGT TTTAGAGATA GACATAGTAT CTGAAAGGTT AGTTATTTTA CTAGACCTGT GATTATTTGG 77640 GTGAGAAAGG CTTTCACTGA GATTTTACCC ATTCAGTAAG TACTAATGAT ATTGTGCTGA 77700 TAGCATATAT TAAGGGAATA TATGGTATAC CACAGAGAAA GAATTAAGGA AATTTTGTGT 77760 TTTGCTTTTT GTCTGTTTGC AAAACTTACT GACTCAGCTT TCATTCTTGG GAATGTGTCA 77820 GTTTTCTGTG GGAAGATATA CATTGATGAG GAATTGATAA TGTTCTCTGT ATTTTCTTAG 77880 77940 ATGGAGATTG TAAAAAACTT ACCTCAGAAA TATTTGCAGA GATAGAGACC TGTCTGAATG 78000 AAGTTAGAGA TGAAATTTTT ATTAGCCTTC AGCCCCAGCT TAGATGCACA TTAGGTAAGT AATTGGTAAA ACTTACTTGT ATTATACTCA TCTACCATAT AGAAATATGT ACCTCATAAG 78060 GAAATATAAT ACTGTTTGAT TACCTTGGAT GATCATATTC TTGGGAGAGA GAATCTGAGT 78120 AGTTTGACTT AGGAATCTAC CACTGGGTAA GTTATTGTAG GGCAGAGCTG TTCCATATAA 78180 78240 ATATGTAGGC TGGTGTTCCA CCTCTTGAGA GTGGGTGCAG TTCTCAGAAC CAGGAGAATT TTAGGGGGCA TATCATTAGT TGCTTCTCTA GTACGTTTCC TAGTAGACAG ATCTAGCATT 78300 78360 TTTAACCTCA ATTGTGCATT AAAAAGCACC GAGGGAATTT AAAAGTAAAT GCCAATGCTG 78420 GGGCATTTGA ATTAGGATCT CAGGGATGGG GCTCAGGAAA TCAGTAATTT TTAGAAACCC CACATGATTG TTATATGTAC CCAGGGTTTA GAATCTCATC TAAACCAACC ATAGTAATTC 78480 TACTTCCCTA CCAGTGATTG GTTTAGGAAT GTCCTTGTGG TAGAGTTTTG GCCAGTGGAT 78540 ATTAAGAGAA ATATGCTGAT GGCCTTTTGG GAAAGCTTCC TCGCCTTTAG AAAGGGCACA 78600 AGGATGGGAC CTCTTTGTTC TCTGTGACTT GGTTTTTGGC CTGTGGGAGT GGCGTGCAGC 78660 AAGTGAGCTA GAGAGTCTGT CCAAACCTTT CTAAATTTTT TTAGTATTGC GAAAAGGAGC 78720 TGCGGGGTTT TTTTGTTTGT TTTTGTTTTG AAAGGGCTTT TTGTTTTATT TTTCTTGTAT 78780 CCTTGTATTA ACTCTTCTAT TAATGTTATA GTAGCAGAAT ATGATACTCC CTATTAGTAA 78840 TAACCCATAT TATGTAAAAT ATCAGTGCCT TCTAGTTTTT CTCTCAATGA GTGACATTTA 78900 ACTTATATTA AAAAATGATA TTTATATTTT ATAATAAAAT CAGTTGTTGC TACTGATTTG TCTAGCATGT ACAAAAGACA CCATGCTTCC AGATCATTAT AAAATATGAT ATTTTATAAT

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ATATTTACAA TATATTTATA.ACATATTTAT ATACTTAGAA TATATTTTAT AAGGCTGGGC TTGGTGGCTC ATGCTTGTAA TCCCAGCACT TTGGGAGGCC AAGGCAGGCG TATCACAAGG 79140 79200 TCAAGAGATT GAGACCATCC TGGCCAACAT GGTGAAACCC TGTCTCTACT AAAAATACAA 79260 AAATTAGCCG GGCGTGGTAG TGTGTGCCTG TAGTTCCAGC TACTCGGGAG GCTGAGGCAG GAGAATCGCT TGAACTTGGG AGACAGAGGT TGCAGTGAGC TGAGATCACG CCATTGCATT 79320 CCAGCCTGGG GACAGAGCGA GACTCCGTCT CAAAAAATGT ATATATATAT ATATATATAT 79380 ATGTGTGTAT GTGTGTAT GTGCGTGTGT ATATATATAT ATCGGGAAGC ATGGCATCTT 79440 TTGTACATGC TGGACAGCTT TTGACGTACT TCTTTGACTC ATGCTTCTGC CCCCTAATTT 79500 TCACTTTTT TCCTACATTT TATTAAAATT AATATATAAT AGTTGTATAT CTGCTTTATT 79560 TTTCATGGAC TTATACATAC ATATTTATTC TGTTCTTATA AAAGTCTGAT TTTTCGTATG CCAAATTTCT GACATTTCCT CCTCTAGGCC TGAAGAACTG TTGTAATTTA TGCATCAGAT 79680 AGGCCCTCAG ATGGAATGAA TATTCTTTTT TCTTTATATC AAGGTGTAAT TTACATATAG 79740 TAAGACCGTT TTTAAGTGTG TACAGCTCTG TAACCCTCAC TACAATCAAG ATATAGGACT 79800 CTGTCACTCT AAAACTTCTC ACCAGGTTCA TCACCCCCAG CCACTGATCT GTTGAGCGAA 79860 TACTCATTTC AAAGGAGCTT TTTCCGTAAG ATCCCTAGAG TTTAGATGGA AGGGCTTTCG 79920 TGGTGCATTT AGCAGATACC ATTTCCCTTC TAGACTCCCT ACTTCAGTTC CCAGTTGAAT 79980 TAAAGAATGG TTTCTCCCCC AGCCTGAGTC ACTACCCTTC TTATCCCTGA TAATTATTTT 80040 80100 TGGAACAAAG TTACATCTTT TGCTCCACCT CCGCCATGGG CCTGGTTTTC TATGTAACAG AAGGAATTTT TAAATTATTG TTTTGTGTAA TCATAATAAT TGGGCAAGCA TACAGCTCTT 80160 TTCAGTGCAG GAGGATTCCT CTCTTGTTTT ACTGCCCATT CAAGGATAGG TGCTATATTT 80220 TAGCTGAAGA TCTTACTAAT GAAATGCTCT GTAATCATAT AACTTATTTA AAGATGTGTT 80280 TTGAGCTCTT TCATAATATT TTAATTCATG GAGAACTTTA TGTATTTTAG ACCTGAAGAT 80340 TTTATATTGT CATTATGAAA TGTAAATTGT TTGCTTTTTC AGTTAATATA TAGTTACAAT 80400 AGAATACGGA TTTAAAGGCT GATAATGAAT TACAAAATTG TGCTATATGA CATACTGTTT 80460 ATGCATACAG TGTTGCATAT TTTCATTTCT AGGATATTGA TTTGTATTTC TACTTACAAA 80520 AAAACTTTTT AAAACTTATT TTATGGCTGG GCCCGGTGGC TCACACCTGT AATCCCAGCA 80580 CTTTGGGAGG CCGAGGCGGG TGGATCACCT GAGGTCAGGA GTTCAAGATC AGCCTGGCCA 80640 ACATGGTGAA ACCCTGTCTC TACTAAAAAT ACAAAAAATT AGCCGGACGT GGTGTAGGTG 80700 CCTGTAATCC CAGCTACTCG GGAGGCTGAG GCAGGAAAAT TGCTTGAAAC CAGGAGGCAG 80760 TGGTTGCAGC GAGCAGAGAT TGCGCCATTG CACTCCAACC TGAGCAACAA GTGCGAAACT 80820 CCTTCTCAAA AAGAAACAAA AAAACTTTTT TTAATGTTTT TGTTCAAAAG TAGCAGTGAG 80880 ACTATCCCGC AAAGGTGACT ACTAAAATAG CCTTTGTAAC TACTGATATT TATAGAATAT 80940 GCTTAGGGTT AGGGTATAAC TCGCTTGTAT TATACTCATC TACCATGTAG AAATATGTAC 81000 ATCATAAGGA AATATAATAC TGTTTGATTA CCTTGGATGA TCATATTCTT GGGAGAGAGA 81060 ATCTGAGTAG TTTGACTTAG GAATCTACCA CTGGGTAAGT TATTGTAGGG CAGAGCTGTT 81120 CCATATAAAT ATGTAGGCTG GTGTTCCACC TCTTGAGAGT GGGTGCAGTT CTCAGAACCG 81180 GGAGAATATT TAGGGGACAT ATTGTTAGTT GCTTCTCTAG TACTTTTCCC AGTAGACAGA 81240 TCTAGCATTT TTAACCTCAA TTGTGCATTA AAAAGCACCG AGGGAATTTA AAAGTAAATA 81300 CCAATCATAG GGACATTTGA ATTAGGATCT CAGGGAAGGG GCTCAGGAAA TCAGTAATTT 81360 TTAGAAACCC CACATGATTG TTATTGCTTA GGTAATAACA CCTACTGTCT ACCTTGTGGT 81420 CCTGCCAAGG TGACTGTTCC TGGCCATGTT CCAGGCAACT GTAGTTCCAG GCTAGGGGGA 81480 GAACTGGACC ATGGAAGTGA GGCTCTGTCC AGGGTAGGGG AAGGGATGGA AGGTGACTGT 81540 TCCTGGCCAT GTTCCAGGCA ACTGTAGTTC CAGGCTAGGG GGAGAACTGG ACCATGGAAG 81600 TGAGGCTCTG TGCAGGGTAG GGGAAGGGAT GGAAGGACTC AGTCTCTTGG GCCAAATCGG 81660

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TAAGGCAGCA TCTAAGCTCC TCTGAGAATA GGAAGGAGAG CAACCAATTG GAAAAAGAAT 81720 GGGAAACATG TAGATTCTCC TGCTTACCTT ACTTTCCAGT CTCAAAGCTG GAAGCCAGCA 81780 TTCACTGTTC AGTTATTTTC AATGACAACA AGATTCAAAT CTTCAGTTGT AAAGTTGTTA 81840 AAGGAAAGGA TTAGACTGAA AAGTTAAGAA GAACGGTAGA TGAAGAGTCC AAAGAGTTGA 81900 GGCTGGTCAT TTAACCATTG TGTGGCCACG CCCTCTCCAC AGGTGGAACA AGATGATCAG 81960 AATAGAAATG GCCAATTCTG ATGTGTTTCT ACAGTGTTTC ACTGATTACA TTTTTTAACA 82020 TCTGTAGCAA ACCATTTCCA TAATTTTTTT TTTTTTTTT AGAGACGAGG TCTCGCTCTG 82080 TCACCCAGGC TGGTATGCAG CGGCATGATC ATAGCTCACT GCAGCCTCAA ATTCCTGGGC 82140 TCAAATGAGC CTCCTGCCTT AGCCTCCTAA GTAGCTTGGA CTACAGGTGT GTAGCACCAC 82200 TCTCAGCTAA TTTATTTCAT TTTATTTTTT GTAGAGATAA TGCCTCGCTA TATTGGCCAG 82260 GATGGTCTCA AACGTTCATA GAAACTGGTT TTAGGTTCCT AGAGGCTGGC AGCAATTCTC 82320 AGAGGTAACG CAAGCAGTCT TCCTGCCTTG GCCTCCCAGT GTGCTGGGAT TACAAGGTGT 82380 GAGCCACCAC ACCTCATCAA TTTTTGTTTT AATATACTCT AAGGCTTATC ATAGTTCCGA 82440 GATCTTTTT TTTTCCTGA GAAATCTAGA AAGATGGAAG ACAGTATGGG TCTTTTGTGG 82500 ATTTTTTGTC CTAAGAAATT TTCATAAATG TCTGCCAAGG AAAAGGAAAG AGATCAAAGT 82560 GGTAATTAAA TCTTTAGGAT GGACATTTTT AGAAAAATGC TTTATAAACT TCCCCTCTCC 82620 CAACTCTGAG TGACTTATTG TGTCATACTG TATTAACACA TATTCATGCT GTAAATATAG 82680 TAAGAAAAGA CAATAGTTCA CAATTTTGGT TTAGTTTTTG CCATTATTGA TTATGAGCAG 82740 TAATTCTTCC TTTTCTTTTT GAAGGTGATA TGGAAAGCCC TGTGTTTGCA TTTCCCCTGC 82800 TCTTAAAACT AGAAACCCAC ATTGAAAAGC TCTTCCTATA TTCTTTTTCT TGGGACTTTG 82860 AATGTTCGCA GTGTGGACAC CAATATCAAA ACAGGTTAGT TTCTTTTGTT TTTTAAAATG 82920 GGTTCTTCTA GTTTCTCCAC CACTAAGGTT AAGAGAACAA TTTGAGCACC AGACACTACA 82980 GTTTGCTTGC TTCTTTAAAC TGGAAGGGTC AAAACCTCAT CGTTTGATAG ACTGCTAGTA 83040 GGATATTTCC TAAGGAGTTC TTCAGTGGGA AATAGGGACG ATGAGAGGAA TAATACACCT 83100 CCCTTCTCCA GAGTCCTTGC TGAGTAGAAT ACCTCTCAGA ATGCCATGAA ACTGTAGGCA 83160 TTTTTGTTTA TTCCTCTATT AGAAATGAGG GGTTTTGCTT GTTTACTTTA GGTTTCTAAC 83220 ATTATAGACA CTAGTTTTAG GCTCTTGGAG GCTAGCAGCA ATTCTCAGAG GTAATGCAAG 83280 CTTCCCCATT TCTTCCCGTA GTCCTGTGAA AGACCAGCCA CCTCCAGAAG CCTACACATG 83340 AGTCTTCTCA GCCATACTTT CTGCTTTTCC TAATGCCTCT CAGCAGCGTA TTAGAAAGGC 83400 CATGATCGAT GTACCTGTTA CCTTCAGGCT TTGCATAAGG TGTATATGAA ACATAATGAA 83460 TTTCGTGTTT AGGCTCAGGT CCCATCCCCA GGTTACCTCT TTATCTTGGA GACACTTCTG 83520 GTCCCATACA TTTCAGATAA GAGATATTCA ACCTGTACCC ACCACGTAAG GAGAGGAATA 83580 GGTTTTAGAA GAGGAGTCAG GGAGGCAAGG TATTCCCAGA GGGATATTCT CACTTGGTCC 83640 ATACCTGAGA AAGTTGCTGG CTGGCAGTTA GGAAGATGAC CAGACTGGCT CAATTGTTCG 83700 TTTGAGTTGG AGTCTCGCTC CCGTCACACA GGCTGGAGTG CAGCAGCGTG ATCCCGGCTC 83820 ACTGCAGCCT CCACCTCCTG GGTTAAAGCG ATTCTCCTTC CTCAGCTTCC TGAGTAGCTG 83880 83940 GGATTACAGG TGTGTGCCAC CACGCCCGGC TGATTTTTGT ATTTTTAGTA GAGACAGGGT TTTGCCATGT TGGCCAGGCT GGTCTTGAAC TCCTGACCTC AGGTGATCCA GCCACCTGAG 84000 84060 CCTCCCACAG TGCTGGGATT ACAGGTGTGA GCCACCATGC CTAGCCACAC TTTTCTTTAG CTTAAGTGCT TAAGTTAGAA AACTTGAAGT CTCTCTAAGT TACTCAAGTA AAATGTGAGA 84120 TAAAAATATT ACTTTTGAAG GCCGGGCACA GTGGCTCACA TCTGTAATCC CAGCACTTTG 84180 GTAGGCCGAG GCGGGTGGAT CACGAGGTCA GGAGTTTGAG ACCAGCCTGG CCAACATGGT 84240 GAAACGCTGT CTCTACTGAA AATACAAAAA TTAGCCGGGC ATGATGGCGG ACACCTGTAG 84300

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TCCCAGCTAC TCGGGAGGCT GAGGCAGGAG AATAACTTGA AACCCGAAGG TGGAGGTTGC 84360 AGTGAGCTGA GATTGCACCA CTGCACTCCA GCCTGGTCAA CAAGAATGAC ACTCCGTCTC 84420 84480 AAAAAAATT AAAAAAAATT ACTTAGATAT TCATTATCTA AATATGAAAT CCTTTTTAGG TATTTAAGGA GTAGTCAAGG AGAGTTCAGT CTGGGAGGAT GCTCCAGGGA ATGCAGGCAA 84540 CAAAGGTTTT GTTTTTTTT TAACTGGTTA ACTCAGATCT ACTAGAACAG GGTAAGGGAG 84600 GCCACAGAGT AGACACCATG AGCAAAGCTA ACCCTCCTGA GTTGAAAAAA TTATGGACGA 84660 84720 GAAGTTATCA TTGAAATTAA CTGTTGGCAG ACATATCCAA AGAATATCGC AAGGATTTGG TCCCTTTATG CATCCTGAGA CAGATGAATG TGTGGAATGG CAGCTGGTGG GCAACAGAGC 84780 GATATTGGCA TGGTGGTGAT ACAGGGAAAT AGTTTCATCG TGTTAAAAGC CATGGAACAA 84840 AGATACATAA TGGCTGCTCT GCAGAAAAAT CCACGTCCCC TCTCCAAAGG GCCTGTTTTA 84900 CTCTGATGTA AAAATTGGGT CAGATAAATT TTCATATTAA GCTTTTTGTT GAGTAAACTT 84960 TTGTAATAGT CCCCAAAACT CCCACTAGAA CAGGGTGAGA ATTAACGTTT TATTCATACC 85020 TAGGACTTAA ATAATTTAGT GTAAGCAAGT GAGTATGAGA ACACATCTGT TTCCAGTCTT 85080 CTATCATTGC TITATATAAA TTCTCTGGTT TTCTCCTCAC AGTAACTCAG TGAGGAAGAT 85140 CCTAGTGTCC TCATTTGGCA CGTATGGATA TGACAGCTTG AAAGGGGTTA GATTGATTCC 85200 CAAGATGACA CACTGTAAGT GGCAGAGTCA GGAGACACAC TTAGGCTCTT CTGGCCTCTA 85260 AGACTTTCTT GCTCACTGTG GTATACTCCT TAATCACTAC CTGGGTTTTA AATAATATAA 85320 ATAACCTTGC TGATTAAAAT CAGCTTAATT GTAGCTTCTC TGGAATCCAT ATCTTAGTTG 85380 TTTGACAGTT TTCGGTTGAG TGTCTTCTGT GTGTTAGGAA CTCAGGCACT GGAAATAGTG 85440 85500 TATCTTTGCC AAATTTACTA ATTAGGTAGA GAGATAATAC ACGAACACAT AATAGAGGTC CAGTGACTTC GTAATTAATC TGATCTTTGG GCTGCTTAAC GTTAGCTTTG AATGCAAGAT 85560 GTTAAATGCG TTTTAGAGAT ATATAGCACA AACTGTGAGA GCTCAAGGGA GGGAAGCCAC 85620 TAGCCGCTTT TGTTTGCTTT TTTGTTTTTT AAAAATAATC TTACTTTGTT CTAAAAATAA AAGTAGTTAT AGAGGGAAAG CTAAAATGAA GTGACGTTTT CTTAAATATG TTTTAATATG 85740 TCATAACTTA AAACTTATTT CCACTTAATC TGAAGGAGAA CTGTCCAGCA AATTCCTTTG 85800 85860 TTTTTGTGAA GCTGTTTTTA GTGCCAGCAT AAGGGCTTTT TACTCAACTT GGAAAGTGTA ACCCAGAGTC AGTTAAAAAC ATAGTCTTCA GAGGCAGATC TCAGGTCTGT TATTTATCAC 85920 85980 TGTACTCTAT GTGTCACTTT CCCCATCTGT AAAATGGGGA TAAGAATAGC ACCTGCCTCT GAGAGTTGTT TGGAAGATGA GTGTCCAGTG CCATGCCCTT TGCACATAGT TTAAGTGTTC 86040 AGAAATGTCA GATGTCATGT GGAGAATTAA CACTTACTTG CTGAGACAGT CTCCTTTTTA 86100 TAAACTAAAC AGTAGGAGCC TTTACATAAC AATTATCTTT GAAAATTTAA GAATTTAGCA 86160 86220 GACTACTGAT GTTTTTAACA GACAGTGCTT CCTCACAAGA TTTATAAGTA TTTGCTATTG 86280 TTTAGAAAGG AAGCTTGTAT CTCTTAAGTA GCTGCTCTTT AAATTACAAA TATTTTTATT 86340 AAAGTGGATG CAGTTGAGGT TTAGTGTACA TCTTTAAAGG TCATCTTTTT AGATGGCGTT 86400 GCTCTCAAGT ATTCAGACTA AAGTGCAAAT TTAGAACTTG TGTAACCTGT GAAAACAAAA 86460 TTTGTTCACA ATTAATGCTG TGTGTGTGTG TGTTTTTTT TTAAGGATTA AAAAAAGTTA 86520 AGTTGTATGT ATTCCTGATT TTATGTTTGG AAACATCCCC TTTTCATTTT TGGTTGTCTG 86580 TAATGGCTAG CCAGTTTGAG TTATTTGAGT AAGGGGTGAG CTCTTAATAA ATTTGACAAC 86640 CTTAGAACAG TGGTTCTTCA CTAAGGGETA TTTTTTCCCC CTTGGGACAT TTGGCAACAT 86700 CTACAGACAA CTGGATGCCG TTACTGGCAT CTGGTGAGGA GAGGCCAGGG ATGATGCTTA 86760 ACATCCTACA GTGCACAGGA CAGTGCTTCA CAGCAAAGAC TCTCTGGTGA AAAATGCAGT 86820 GATACCATTG AGGAACCCTG TCTTTTTTC TTGCTTCATC TCATAGTTGA AAGATATGGG 86880 86940 AAATTAACAT GGAGCATCTT CACAGAGCTT CTTTACTAGA GGTAGGGAGG AACATTGCCA

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TATTAACATG ATTTGGGGAA ATAAGAAAGT ATGAATCACG AAAAAGGGGA GGAATACTTT 87000 TAGACATTGG TTTAAATTAA TGTAAATGCA TTTAACGTTA ATGAATTTGT TATGTCATTT 87060 TTTTATAGGC ATATGAAGAG TCTGGTCACC TTTACAAATG TCATCCCTGA GTGGCACCCA 87120 CTTAATGCTG CCCATTTTGG TCCATGTAAC AATTGCAACA GTAAATCACA AATAAGAAAA 87180 ATGGTATTAG AAAAGTGAGT TAAAATTGTC TTATAATTTT TAGTACAAAA TGAAGGTGGA 87240 TTTACATTTT TCTTAATGTG TAGGATTGAA AATGGTGACA ACAACTTACC TTTCTGAAAT 87300 TTGAGTTAAC ATATATTTCT GGGTTGCCAG CTGCCTCGCT CTATCTGGCC AGTGAGCCCA 87360 CTGTCACGGT GAAGCCACTG AAAAGCCAAC TTAGGCTGAC TCTCTGGCCC CACTCTCCTA 87420 GTGTCTTTCC TTCTTTTTGC CTTTTTTCTC CCTTTAAGGA TATCAAGCTT CAGTTTTTCT 87480 CTCCTCTGCC AAGTGTATGG AGTTTCTAGA ATTCTGGGAT TTCCTTAATC AGATTTCAAG 87540 AACTAAGATG ATTCAAAGAT AAGCCACAGG CTCATCTCTC TGAATTTCCA TCTTCTCCTA 87600 GATCTCAGCA TGCTAATTCC TCATCATCTT GAAAGCTATC TAGTGGCCTT GAGCAGATAT 87660 ATTITCATTG TATTITGCCA GCTTTTCTGT TTGTCCTCAG TTGGGGAGGT TGGTCAGCAT 87720 TACCTTTTCC AGTATTACCA GAGAACCATC TGTTTAAACT CACAGGTCAG TTCCATCTCA 87780 GGCCGTTTCC CTCTGTCTCA TTAATGCACT CACACATGTA CACAACCTCT CTACTCTTCA 87840 TTTTCAGTCT AATCGTACAT TAAGGAAATG TTTTGAGGTC TAATTTGATG TAATAAAGAA 87900 CCGGGAACAT TAACCTTTAT GCCCTTGAAT GTGCCAGAAA CCCTTCAGAA TCTTTCCTAA 87960 AGGTTTATTC TCATTGAAGT AATAAATCCT CAGTTTATCA GTGCTTACAG GCTCAAAAGG 88020 GAAAAAGGC AGTAGTCCCC TGTTCCCTCC TCCAGGTATC TACTTTAAAC CTTCAAATTA 88080 AGGTAGTATT TACTTTTACT TTTCAAATTG ATGTGCCTAT TCTACCGTAA TGCAGTCTGT 88140 TCTCCTTTTA TAGTAATTGA GACTAGGGTT CTCACACCAA CACCTGGGCC CCATCTCTGT 88200 TTAGCCTTTC CCTGTCCTTT CAATGCAATT GCGTATTTGG CTAACTCAGT ACTCGGTGTT 88260 TGCATTGTTA TTAATATACA TGTGTTATTC CCTCTTCAGC CAAGCAGTAT ATATAGTTAG 88320 GTTTCACTTT TACAATTCTT ATTTTTCCGG GAATTGTTAT TTGCCTTGTT TTCATTTGTT 88380 TTATTATGTA CTGTGAGTTT TTGCCAAATA CTTTAAAGAC TTATTAATAA ATTTTCAATA 88440 CTCAGATGCT TCACAGTTTT TTACTCTGTT CCTCTCCCCT TTTTTTCCTG GAACTCTTTC 88500 CTGCCACCTT TCACTCTTTG CTGCAGTCTG CGCTGGTTCC TCTCTGGGCC TGCAGCATAG 88560 GGTGCTCTTT ATTATGTACA CACTTCCAGT CACTATCGTA GTTTTTAGCC CAAGGCCTCA 88620 TCCCCACATT CTATCACATC TGTTGCCCAT AAATATCCAG TCCTTTAGGG GTTCTCTGGG 88680 AAAAATAAGC TCTTCTTTGT CATCAACATA TGCACTCCGT AGTACTCATG TCTTCACTTT 88740 GCCCGTTCTG CTGGGTAAGG TGCCACTTCT CTGTTTGCTT TCTGTCCTCT AAATATTTGA 88800 CTTCTTATTT GCTTATTTTC CTTTCTTTGT CCTTTTGGAC TCATATCTTT TTTGCCCCTC 88860 ACTATTATTT GATAGCATTT GTGTAGGAGG GCGAAGTGGG AAGGAAGAGG AGGTGTCTGT 88920 ATCTGTCTGA AGATTACAGA AGTCTGTAAT CTGTCTTGGC TGCCAGGTGT CAGTTTTGAG 88980 ATGTAAATGT TGATGATGAG GTGAGGAGAA GAGCAGCAGA GCATGGGGTC TGCCATCCTG 89040 CCTTGGACCA TGGCCTGCTT TAGGCTGCTT GGTGTATATG ATTTCATCTA GCTGTTCATA 89100 CCTGCTTTTT CCTGTGCCCC AGCACTGAAC ATAGACTCGT ACCATTGTTT TGTGTAATCT 89160 GTTAATTGGT TGCACTGCAG CATATATATT TTTTAACTAT ACAAATAAGT TGCTTCCCTT 89220 AAAGATTCAT GCTCTGATCT GGAAATGGAT TCATTAGGTA AAAGTCTTTT AATGGAAAAT 89280 GTGTTTTGAG TTCCAGTGGG CCAATTTATG AGCAGAATTT ATAATGTGGG CATTTCCTGT 89340 TTTCTCAAA AGTAAATTGA ACTAGTGTAT GAAGTTTCAC TTAAATTTTA AATGCCAAGG 89400 TCTTTATATA AGTCCTTTGT GTTTTTTAA TTTTGAAATT TGTATAACTT GATTTGTTTG 89460 TGTCTAATGG AATTTAGAAA TAAATTTAAT ATAGTTTTTA GGGCTAACCT AAAAGTAATT 89520 GGGTTCATCA TGGTGTCATA TGTAATTAAA ACATATAGAA TCCTAAAAAC TAATTAAGTT 89580

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CCTTGGACAC CTTATCTCAC ATAACCCACA TCTCTAATGT CTCCCCATTG GGAAAAGAGT 89640 CCATTGATAA ATCAGGTGAA TTATGCCTAG CGGGCCCAAA TCTGCTACTT TTCTTTAAGT 89700 TGTTTAGGAG TTACATTCAG ACCATGGTGA CATGGAGCAC CAAGAACTTA GAATCAGATT 89760 TCATTITACT TGACAAACTC TTGAAAGGTC ACTGCCACAG TCTCTCTTGA GTGCAAGGCT 89820 ATGGCTATGC TTTGTAGCAC AGGGACGCGA TATTTCTCTG CTATCTTTGG GTAGCAGAGG 89880 89940 ATAGATCTTT AAATAGGAGG AGTTTAACCC CATGTTAGGT GAATTCAAAT GGATCTTAGC 90000 CTGATGTCTC TTGTTCTCTT TTGGTTCCAG TTTGGTTAAT TCCTTTCATC CAATTTTCCA 90060 GTGGTTGAGG GAGAACCTAA CTTGCTCTCC TCGACTCTGA GCATCATCCT TCACTGACAG 90120 TTCAGGCATT GTGGGTAGGA AGAAGTCTGA GAACAAAACC TAGGGATAAA GTTTAGTAGA 90180 GATGGGGTTT CACCATGTTG GCCAGGTTGG TCTCGAACTC CCGACCTCAG GTAATCCACC 90240 TGCCTTGGCC TCCCAAAGTG AGGCTGGAAA TAAGACATGC TGGAATTGTA AGTAGGACAC 90300 TAGAGTCTAG GGGAATCAAA GAGGAAAATG AACAGAAAAG GGAAGGGGAA GGATATTATT 90360 TGATTGACTC CAAGATGCTA CTGTTTGTAA GTTTTACCAT TTTAAAAATA TGCCATTAAG 90420 AAAGAAATGC TGGCCGGGCA TGGTGGCTTA TGCCTGTAGT CCCAGCACTT TGGGAGGCTG 90480 AAGCGGACAG ATCACCTGAG ACTAGGAATT TGAGACCATC CTGGCCAACG TGGTGAAACC 90540 90600 GCATCTCTAC TAAAAATACA AAAATCAGCT GGATATGGTG GCACATGCCT ATTGTCCCAG CTACTCAGGA GGCTGAGACA TTAGTACTGC TTGAACTGGG GAGGCAAAGG TTTCAGTGAG 90660 90720 CAGAGATTGT GCCACTGCAC TCCAGCCTGG GCAACAGAGT GAGACTGTCT CAAAAAAAAA 90780 AAAAAAAGA AAGAAATGCT GCTTATTTAA CTGTGTTCTG TCAATGTTAA GGTGTATCCC GACTTCAGAG ATGTTAACAA ATGGGAAAAA ATTTGGAATT CATTAGGCAT TTGGAACTTA 90840 CAAAGTTTCG GCCGGGCATA GTGGCTCATG CCTGTAATCA CTTTGGGAGG CCAAGGCGGG 90900 TGGATTACCT AAGGTCAGGA GTTCGAGACC AATCTGGCCA ACATGGTGAA ACCCCATCTC 90960 TACTAAAAAT ACAAAAATTA GCTGGGTGTG GTGGCATGCG CCTGTAGTCC CAGCTACTCA 91020 GGAGGCTAAG GCAGGAGAAT CGCTTGAACC CAGGGGGCGG AGGTTGCAGA GAGCTGAGAT 91080 CGTGCCCTGC ACTCCAACTT GGACAACAGA GTGAGACGCC ATCTCAAAAA CAAACAAACC 91140 AAAAAAAAA AAAAAATTTC ATAGTTACAG AAAGTAGTAT GGAGGCCATA CCGAGATTTT 91200 91260 CGACATGGTA GTAAAACTCT GCATTATGGC TCTGTTCTGC ATCATCTCTG TTCTGCATCG TTTCACTCCA CATCAGACCC TGGATAGCTT TGGTGTACTG GTCGATCTTG TGGCAGTAAG 91320 GCTAGTGTAA TTAAGAGGAT ATTTTAAAAC TTAACATATA ATTGCTCTAG TTGTTGTCTC 91380 TTTTTGCTG GTTAAGAAAA TCAAATTTCT ATCCTATCTG AATCTCATAG CAGACTTTGG 91440 AGATTTCTGA CAAGTCATTT CTTACTACCT AGGGGAATGT ACTTGTACTC AGCTAGAGTC 91500 TGAGTATCTT CTACATCCAG GGAATTGGGC TGAGTGTGGA TTTTGGTCTT GGCAGTTTTT 91560 ACTTTTATTA ATTTGCAAAA GAATAGAAGA CTTGGAATGT ACAAGAAGCA TAAAAATGTG 91620 TCAGGTGGTT TTACATGCGT TATTTATCAC GTTAATATGT CTTAAGATAT TTTCCACGTG 91680 TAAACTTATG TAAAGGCAGG AAACTAGTGA GATTTCATAT TCTAGGGATC AAGAGATTGT 91740 TTTAGTAACT AGCCTCAGAA AGTATCTTGA AAGGTATTAT ATAAGGTCAA GGAACTAAAT 91800 ATTAGTAAAG AGTCAGGCCA GGCGTGGTGG CTTATGCCTG TAATCCCAGC ACTTTGGGAG 91860 GCCAAGGCAG GCAGATCACT TGAAGTCAGC AGTTCGAGAC CAGCCTGGCC AACATGGTGA 91920 91980 AACCCTGTCT TTACTAAAAA TAGTAGTGTG TGGTATGGTG GCGCATGCCT GTAATCCAGC TCCTCAGGAG GCTGTGGTGG GAGAATCACT TGAGCCCAGG AGGCGGAGAT TGCAGTAAGC 92040 TGAGATTGCA CCACTGCACT CCAACCTGGG TGACAGAGCT AGTGTCTGTC TCAAAAAAAG 92100 92160 AAAAAAAAA AGGTCAGATA GGTGCCTAAA GCCTGTGTGT CTCGCTATGA GAATACATCT CAAGTTTTAC TGTGGTTCAT TGATTCAGAC ATGTAGTTCA CATTTTAACC TGTCTGAAAT 92220

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GGTAATATGT GAAATTGATG TCATGATATA GTTTAATTGG CAGCATGTTT TCATAGTGGT 92280 ACATTTTATA ATTAGTGAAA TCTTAGATTT GATGAAATAG ATATGATTTT TTAAAGTGGG 92340 AAAGTTTAGT GTTATAGACA GTTTGCAGGA CTTTTTATTT TGTAGGTACT TAAATTTTGA 92400 92460 GGACTTAATT ATTCTCTAAT AAAGTGATTG ACAAGGATTA ATGTATAAAT TATACCTTGT 92520 CAGTCTGAAC AATCTGCAGT TTGGACATTG ATTCAAATTC ATTTAGGCTG AATAAATTTT GATAAACTAA GTAAGTTTTG ACAGCTATTT AAATATTGGG AAAGGGGATA TTCAACATTT 92580 TTCTTACATC CTGAGAGCTT TGTTAAATTT AGTTATTTGA GACCCATTGG GTTCTATTTT 92640 CTGGTTCAGC ATGTTGCTGT AATGGTAAAA TACAATTTTG AAATTATAGT TGTCTTGAAG 92700 TTAATAATAA ATTGACCAAT ATGTTGTATT TTTTTCTCTA CTTAGTTACA AATTGAACTT 92760 92820 TTCCTAAGTA GAACTTTTAA TTTGACAGGC CCCCTTTGCT TCCTGAGGTA ACTGAAATAG GCCAAATTAA TGCTTTTTTG AATATCTTAG GTTTGTTGCT TTCTTTCACA TGTTACCTAC 92880 CCCACTTAAC AAAAGCAATT AATCTCAGCA CTTGATGCCA AAGAAAATTC TAAAAAGGTCT 92940 GGATTTTTC CTTGGATTTT ACAAAGTAGC TACAATGGGA CTTTTAAGAC AAAGCTGCAT 93000 TGCTGCTTAC AGAGCAATTT TTGTTTAATG GTCTGTGTTA GAGTCATACT GCATGATGAC 93060 TTCCAACTGT CTGGGATACC ATTCTGAAAA GGGTTTAGTG TTACATACTT CTTAGAGAGA 93120 93180 GTTCTCCATT TCTAATTAAG GCACACATCT GGAGGTGCTC AAGAAAAATT AGTGCAGTTA GCCTTGGAAG TGTTATGTGT GACTAGTTCA CTTCAGACAT CTTTTGTATA ATCAGACACA 93240 93300 TGGCATTAAA TTTATTTAAC TTCTCTTGCT TTTCTCTCCC ACAGAGTATC TCCCATATTC ATGTTGCACT TTGTAGAAGG CTTACCACAG AATGACTTGC AGCACTATGC ATTTCATTTT 93360 GAAGGCTGTC TTTATCAGAT AACTTCTGTA ATTCAGTATC GAGCAAATAA TCATTTTATA 93420 ACATGGATTT TAGATGCTGA TGGTAAGTGT TTAGAGGTTT TCTTTTAAGA TAATTGGCAT 93480 AGAAACTAAA TTCTAGCATG TGGGGACTTT TTGGTTTTTG TTTTATAAAA AAAGACAAAC 93540 TTTGTCCTGA CTCTTTCTCT CTCCATTCTC GCCTTTGCCT TCTGCCCCTC CTCGCATCTA 93600 TTAAAAGTGA TGGTTTTAGT ATCCTGTCTC ATTTTTTCCT TTCCTTACAT CATGTATTAT 93660 AGGTAAACAC ATGCGCATGT GTGTATTTCT CTTTTAGACA AAGGATGAGA TTACTACTGT 93720 TAGCTCAGTT TTTTTTCCC TACTTAACAT CTTTGCTTTT ATTTTTTAGA CATATTTCTA AGACTATTAA ACATTAGACT TACGTAGCCC TTCTGTCATT GTGAAATACA TAGTTTACTA 93840 ACAGCTACCA TCAAGATAAA GCCTTTATTT AAATAATTAA ACTTCTTAGT GGAAAGCTAA 93900 GTAAGCACAG TTTATGGATT TTGGGAATTT TTGCCTTGCA TTTGTCTGAT ATGGTAAAAT 93960 ATTGAGTTTG TTTTCTCAT AATGTTCACT TTGTCTTAGA CAAGATAACT CAATCCCCTT 94020 AAAGGGTTGT ATCAAGCCAT TGATAAGGGC TCACTTTGAT ATAACCATTT TCTGTTATTT 94080 AGACACTCTT TCACACTTCC TATTTTCCTC CTGGGGATGG TTTGAATGGA TGACACAATA 94140 CCATATTATA AAAGCACTTT ACAAACTGTA ACTTATGTTA TAAATGTAAT TATTACCTTA 94200 94260 TTTAACTTTT TTTGCATTTC AAAGAATGAT CAATCCACTT CAGGTGCAGC ATGGTTTCCA 94320 ACCCTGACAG CATGGAAGAA TCATTTATTT AGCTTCTAAA AATGTGCAGG CTGTACCCTA 94380 GACCAGCCTT GGGGATTAGG CCCAAATATC AATGTTGGGT GTTTTTGGTA TTGGTTTTTG 94440 GCCCGCCTAC CCGCCCTTCC TTCCTTCGTT CCTCTCTCT ATTCTCTCTC TCTCTCTT 94500 TCTCTCTCTC CTTCTTTGCT CCTTCATTCC TTCTCTCTCT CTCTTTTTTT TTTGAGACAG 94560 CATCTCACTA TATTGCCCAG GCTGTTCTCA AACTCCTGGG CTCAAGTGAT CCTCCTGCCT 94620 CAGCTTCCTG AGTAGCTAGG ACTACAGGCA CATGCTATGG CAATACTGTT TTAAACATTG 94680 TTTTCAAGGC TCCCCAGGTG ATTCCAGTGT GGGTCATGTG GTAGAGAACC ACTGACACAG 94740 GCAAACAAAG GATACATAAA GTTGTCTATT TAATGGGTAG GTGCAGGTAG TAGATAAGAG 94800 TGTAGCCACA TAAACCACAT GCTTAGTGAA CGGTTTTGTT TTGTGTGTAT GTGAGGGATT 94860

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AGCATCTCTG AGTATATTTT GTTTTCCCTT TTGAAACTTA TCAGAGAATT CATATGTCTG 94920 TTATGTGACT AATGCTCACA TTAAAAAAAG TTATGTGACT TTTTTTAATT CATATGTCTT 94980 TTTAATTCAT TTATTCATTC ATATGTCTGT TATGTGACTA ATGCTCTCAT AAAAAAAGTA 95040 95100 ATGCTCAGTT TACTTTTTT ATATCAGATC ATATATATAT GTTTTTTTT TTGAGATGGA GTTTTGCTCT TGTTGCCCAG GCTGGAGTGT ATTGGCGCAG TCTTGTCTCA CCACCACGTC 95160 TGCCTCCCGG GTTCAAGTGA TTCTCCTGCC TCATCCTCCT GAGTAGCCGG AATACACGCA 95220 95280 GGCGCTACCA TGCCCGGCTA ATTTTGTATT TTTAGTAGAG ACAGGGTTTC TCCATGTTGG TCAGGTTGGT CTTGAACTCC CAACCTCAGG TGACCCACCC GCCTCGGCCT CCCGAAGTGC 95340 TGGGATTACA GGCATGAGCC ACCGCACCCG GCCATATCTT ATATTTTAAT AAATATTTTA 95400 ATTTGGTCTG TAAATTTTTC TTTTTGGGGA ATGTGTTTTA AGTCTGTGTT GAGTCCTAGA 95460 CATTTGTTGT TCTCAGATAG TCACTAGTGA TACCTTAACA TTAACCAGCC TGTTGGCAAC 95520 TAAATTGGCC TGAAGTGACA ACTAAGGAAA GGTCTCTTTC TCCTTTCTTA ATCTTTGCAT 95580 TCCTTAAGAT TAGTTCTTTG TAGGAAGGCT TTGAAGTCTG GTGGCAAGTA CCCTTTATCC 95640 CTCACAATCT TAAGATAAGG TCTTTCTGAG CATTAAAAAG TGACTGTGGG AGATATGTCA 95700 AATGAGTTTT CTGTGTGTGC TCTGAGAAAT CTTTTTTCA AAAAAGGATA GATGTACTTG 95760 TATAAGGAAA AGAGAAACTG AGCGCACTTT CAATATTTAA GTAAGTGTCT CTAACATGTT 95820 TTGCAACATA AAATGATGAC CACTGTGTTG GTCATTACTT CTCTACTGCT AAAACAATGT 95880 TTTCTAAAAT AATATACTCC TTAGAAAAAA ATATAGTGCT TTGGGTGTGC ACTGTTGTAA 95940 TCCAAGGAAT AGGAAATGTT TTGTAGTAAG TGCGATGGTG TTTGACATCG TGATTTATTA 96000 96060 ATTTATCACA TTTGGTTTCA TAGAAATAGA GTAAGCTACG TATTTGCTGT GCCGCAATTA CCATGACATT ACACTTGTAT CTATTTCTGT TTCATAGATG TGTAGATATT GATATATACA 96120 GTGGAAGTAT GGATTGTTTT GATAAGTTTC TAATGAAAGT ACAGATATTT GTTGATTATT 96180 TATTAAGAAA GGTTGTTACT CATCCAAGCC CGTGGTTAGC TTTTCCCAAA TTATCATGTG 96240 GTAGTAAGTA AAATGTAAAG AAATATACCC TCCCTTAACC CCACACCACC TGTTAGCACC 96300 TAGCCACCTT CCTTTACTTC TCAGCCGTAC TTTTTGTATT TTTTTGTTGT AGTGGTAAAA 96360 TATAAATAAC ATAAAATTTA CCATTTTAAC ATTTGTAAGT GTACAATTCA TTGGCATTGA 96420 ATACATTGTG TGCAACCACC ATCACCATCA GGACTTTTTC ATCAACCCAA ACAGAAACTA 96480 CTCATTAAAC AATAACTCCG CATCCTTCCA CCCCAAAGCC CTGGTAACCA CTATTCTACT 96540 TTCTGTCTCT GTGAATCTGT CTATTCTAGA TACCTCATAG AAGTGGAATC GTACATTATT 96600 TGTCCTTTG TGTCTGGCTT ATTTTACTCA GCATATTTTC AAGATTCATT TGTGTTGTGG 96660 GATGTAGCAG AATGTCATTC CTTTCTAAGG CTGAGTAGCA TTGTATGTAT TATCCATTTA 96720 TCTGTTACGG ACATTTGACT ATTGTGAATA ATGCTGTTGT GAACATTGGT GGACAAGGAA 96780 CTGAAAGTCC CTGCTTTTCA TTCTTTTTGG CATAAACCTA CAAGAGGAAT TGCTGGGTCT 96840 96900 TAACGGTAAT TCTGTGTTTA ATTTTTGGAC GAACTGCCAG ACTGTTTCCA CAGCAGTTGT ACTATTITAC ATCCCCACCA GCGTTACACA AGGATTCCAA TTTCTCTACA TCCTTGCCAA 96960 CATTTGCTAT TTTCTATTTT TTTTTAATAA TATCCATCCT AATGGGTGTC TTTTTTTTT 97020 TTTAAAGGAA TGGTTTAAAC AGGTTACCTT CTTACTCCTC ATTCATGCTT TAGTTGACTA 97080 CATAAGGACC CCTCTCCCTA TTGGCACCAT TGAAATTGTT CAGGCAAAAA TAACTGCCAG 97140 97200 CGACACACTG CTTTAAGTAA TGGACTTTTC CCAAGTTTTG TATTAATATT TCAGTATTTG GTAGTGCATC CTACTGCTAG TTTTTAAACT CTTCCCTTGT CATCTATCAT CTCATTCTCT 97260 CTTGACAAAT GTGAAAATGG AAGCTCAGAA ATAAAACAAG AATTAAAACG AATAGTGATC 97320 CTTCAGGTAA CAAGCTTCAT TTATCATGAA AACATATATG TATGAAACAT TCTGTTTTCT 97380 GATGTTATTG GATAAATTAG GTGATAACCA AATTCTAAGT TCCAAAAATT AAATATACTC 97440 TATCTAAGGA CTTTAACATG GCAGACAATG GTGACAAGGT CAAGAACATG TTTTAGAGTC 97500

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TTCTCCTTTG GTCGGTATTC AATGATACAA CAGTTGAAAA GGCCAGAAGA AAGTTAACCT 97560 AGGATGGTGG TTTTTGAATA TCTAACTTTC ACTTCTTTCC CATCTTCCAG GAAGTTGGCT 97620 GGAATGTGAT GACTTAAAAG GCCCATGTTC TGAAAGGCAC AAGAAATTTĜ AAGTTCCTGC 97680 TTCAGAGATA CATATTGTTA TTTGGGAAAG AAAAATATCC CAAGTGACAG ATAAAGAAGC 97740 TGCCTGCCTT CCACTTAAAA AGACTAATGA CCAACACGCT CTCAGTAATG AGAAACCAGT 97800 ATCTTTAACA TCGTGTTCTG TGGGTGATGC TGCCTCAGCT GAAACAGCCT CAGTAACTCA 97860 CCCTAAAGAT ATATCAGTTG CCCCTCGTAC TCTTTCACAG GACACAGCTG TAACTCATGG 97920 AGATCATTTA CTTTCAGGTC CAAAAGGTTT GGTTGACAAT ATTTTACCTC,TGACACTTGA 97980 AGAAACTATC CAGAAAACAG CCTCAGTTTC ACAGTTAAAT TCTGAAGCTT TCCTGTTAGA 98040 AAATAAACCT GTAGCAGAAA ATACAGGAAT TCTCAAAACC AATACTTTGC TATCACAAGA 98100 ATCACTAATG GCTTCTTCAG TATCAGCTCC ATGTAATGAA AAGCTTATTC AAGACCAATT 98160 98220 TGTGGACATA AGTTTTCCAT CCCAAGTTGT AAATACAAAC ATGCAGTCAG TACAGCTGAA 98280 TACAGAAGAT ACTGTAAATA CTAAATCTGT GAATAATACT GATGCTACTG GTCTTATACA GGGAGTGAAG TCAGTAGAAA TTGAGAAGGA CGCTCAGTTA AAACAATTCC TTACACCAAA 98340 AACTGAACAA TTAAAACCAG AACGTGTCAC ATCTCAGGTA TCTAATTTGA AGAAAAAAGA 98400 AACTACAGCA GATTCTCAAA CCACAACATC TAAGTCATTA CAGAATCAGT CTCTGAAAGA 98460 AAATCAGAAG AAGCCATTTG TGGGAAGTTG GGTTAAAGGC TTAATAAGCA GGGGTGCTTC 98520 TTTTATGCCA CTCTGTGTTT CAGCTCATAA TAGAAACACT ATAACTGATT TACAACCTTC 98580 AGTTAAAGGG GTAAATAATT TTGGTGGCTT TAAAACTAAA GGTATAAACC AGAAGGCCAG 98640 CCACGTATCC AAGAAAGCTC GTAAGAGTGC AAGTAAGCCT CCTCCCATCA GTAAGCCACC 98700 AGCAGGCCCT CCATCGTCTA ATGGCACAGC TGCCCACCCA CATGCTCATG CTGCTTCAGA 98760 AGTTTTGGAA AAGTCTGGAA GCACCTCATG TGGAGCTCAA CTCAACCACA GTTCTTATGG 98820 GAATGGTATT TCTTCAGCAA ACCATGAAGA CTTGGTGGAA GGTCAGATTC ATAAACTTCG 98880 TCTAAAACTT CGTAAAAAGC TAAAGGCAGA AAAGAAGAAA TTAGCTGCTC TTATGTCTTC 98940 CCCGCAAAGC AGAACAGTTC GAAGTGAAAA TCTAGAACAG GTGCCCCAGG ATGGGTCTCC 99000 AAATGATTGT GAATCAATAG AGGACTTGTT AAATGAGCTA CCATATCCAA TTGATATTGC 99060 CAGTGAGTCT GCATGCACCA CTGTTCCTGG TGTTTCCCTG TACAGTAGTC AAACTCATGA 99120 AGAAATTTTA GCGGAATTAT TGTCTCCTAC ACCTGTTTCA ACAGAGCTGT CAGAAAATGG 99180 GGAAGGTGAC TTTAGGTATT TGGGAATGGG AGATAGTCAT ATCCCACCAC CAGTACCAAG 99240 TGAATTCAAT GATGTTTCCC AGAACACACA TCTGAGACAG GACCATAATT ATTGTAGCCC 99300 CACCAAGAAA AATCCATGTG AAGTTCAGCC AGACTCTCTG ACAAATAATG CCTGCGTTAG 99360 AACATTAAAC TTGGAGAGTC CGATGAAGAC TGATATTTTC GATGAGTTTT TTTCCTCCTC 99420 AGCATTAAAT GCTTTAGCAA ATGACACATT AGACCTACCT CATTTCGATG AATATCTGTT 99480 TGAGAATTAT TGAATTAATG CTTGTTAACT TTTTTCATAT AATATTTATT ATTATTAGAA 99540 GAACTTACAA TGTGTTCAGG TAGTGTTTAT ACACTGGACT TGTGTAATTA CTTGTGTAAT 99600 AACCATGAAC AAAATGCAAG GTTTAACCTT TGGTTCTGCC CATGAAGCAT GTAATCTTTC 99660 TTACACATTA AAATCACTGA ATGTGTTCTC CTTTTTGGTT TCATTTTGTT CTTGTGAGAG 99720 TATGAGGATT TCAAAATGTT AAAGATGAAA AGTGGCGTCT AGTTTCTGAC AGTTTGTACA 99780 GTTGGATGCA TTACATTTTT AGATTTGAAG TTTTGGTTAT GTTAGTGTTA TGAGTGATCT 99840 TTGTGGTGGT TTTCTTCCCC TGGAAACCTG TTGCTCGTGG CGCTTTGCCC ACGGTGCCCG 99900 AGTTCTTGTC CTGTGTCCAG ATATGCAGAC AAATGAAGGG TGAAGAAGAA GAAGAGGAGC 99960 TTTATTTAGT GTTAGAACAG CTCAGAAGGA GACCCACAGT GAGCAGCTCC CCTGTGTCGG 100020 CGGGCAGGTC GTCCCTCAAG TGTTCAGCTC TCAGCAGAGA AAAGGCCCTG GAGAGGGTGA 100080 CTCCTCTCAG CTCTCAGCAG AGAAGCAGCC CTGGAGAAGG TAGCTTCTGT TCGCAGGCAG 100140

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ATTGTCCAGA GGTCCTGCTG CTCTCAGACG GGGCCCTGGA GAGGATAGCT TCTATCCATA 100200 100260 GGCAGGTTGT TCTGCCGTCT CTACAGGTCT CTGAAGCTCT TAGCAGAGAG GGTAGCTCCT CCCTGTTGCT GGTCGTCCCA CCCTCTGCTC AGTTCTGGCT GAGCCTGGGG CATTTTACGG 100320 100380 GCCTCGGGGG AGGAAGTGCA TACTTACTGG CCTGGAAAAG GCACCAGTTC CCACTCCTAC 100440 AGGTGGGACT GGCAGCCTGG CCCTCAGCCT TCAGGCCCTC CCTGTTCATG GCTTCCAGGC TTACCCCCT GCTTTGATCT GAGAGCTGGT GCCAATAGCA GGGAGAAGCC AAGCTGCAGA 100500 GGCAAGCACT TCCGAGCCTG CAAAAGCAGG CCCCCAAAAG TGCAGGGATG CCTGAGTCTG 100560 CACCCGCACC CAGGAGGGTG GAGATCTTGC CTGCTCCAAG GCTGCAGCCG GAATGATAGC 100620 100680 AGGCTGACTG GAGCACCTGC CACCATCATT AGTTCAAGAG TTTATGCAGA TTTAAGTTGT ATACGGTATA TGAATGTGTG ACAGTTTTCC TTATGGTTGT GTGGCCTTCT GTAAGAGCCT 100740 ACCCCTGTTT GTTACACCGG TAGAGTGCTG TGGAATGTAA ACTTTCCCTA TGTCACTTAT 100800 CTCCTTTATC TCTCCATACA GAGGAGGGCA AGAAACCTTG TTACTTGAAC TTTAGTAATG 100860 100920 TTAAGTGATC AATAAATCTA TAAATAAATG ATAGCAGAAA AAAGTTACCT GTTTTTGTGA TGATGTACAA ACTTTACATG TTATCACAAA TACCATCTTT CTTCCCAAGA CATTTACTTC TGTAACCAAA GTGGGACACC ATCTAACAGT TCTGTTTTGG GAGAGAGTAA TAACCAGTGC TTGTGAGGCT TGTTAGATGT TGGTTGTGAT ATATGAGATA GATGTTATTT CATTTAGACC TCAACATTCC TGTGCGTGAG ATACTTTTAT CACATCTTAC AGATAAGGAG ACTGTACTCA 101160 TTCAGTTGTG GAGCTGAGAT TGAGTAGAGT GGCTATTACA GCAGTTGAGT GCTGAGCTTA 101220 TCAATATATG TTCCACTCCT CAGGCTTCAT TTAAAGTAGG ATGCCCAAAC AGCACCACTG 101280 CCGTAGAGAT TTGAGTTAAC AGCAGTACTT ACTGAGGTTT AAGGCTGGCA GCCAGTGTCC 101340 TTGCAGTAAA ATTATTTGCT AGGGACTCAG TACTTCATAA TCTATTTGTC AGATTTACTC 101400 CTAAGCTTCT GTGTTGTTTT ATTTTTTTC TGACAAAAGT AGTGCATATT GTCAAGGAAA 101460 AACTAGGAAA ATACCAAAAA AAAAGATTTT TGACCATGCA TTTTAATACT TAGTGACTAC 101520 AAACATTTTC CTATTTTATG CATATAGATT TTAAATAAAC GTGAGATCCT ATTGTATCTG 101580 TTTTAATGGA TAAACATTGT TTCACTGTTT TAAGATTCTG AGGTGATTTA TACTGTCTTG 101640 CCATTGTTAA TTGCAGCAGT TAGCCTTGTT GATAAATTTT TGCATGGATC CAAGTTTTGT 101700 TTTCCAGGAG TGGAGTTGCT TGGTCAAAGG AAATGCACAT TTAAGGTTTT TTGGTGATTG 101760 CATGACTGAC TTCCCTGGGC CCTCGCCAAC ACTAGGTAGT AGTATTGGGA GGAAGGGGGG 101820 AACCAATCCT GGGTGCTCCA AGATTACTAG TGAGCCTGAA CATTTTCTAT AACTATTGTC 101880 CACTTGAGTT GTTGTTTTGT TTTTTTTTG GTGGAGGCGG GGGTGGGTTT AAGAATTGCT TATCCTTTGC TTGTACTAAT TATCTTTTCA ACAAATATTT CTAGATTACT GCTAAGGACC 102000 AAGCACTGTT ATCAGCCTGA GATAAGGCAG CACACTAGAA GGAAATCCTT GCTCCTTTTG 102060 AGTTTGCCTT CCAAACATGG AGATCAATAT ATAATGTTAG GTAGTAATAG GAGATACATG 102120 CAGTTGATTC ATGTCATTTG TAGTAGTTAT GGTCAATAAA GTTGCCTTGA ACACTGAATT 102180 102240 AGTATAAACT GAAATACTGT TCCTAGGGGA AATAGGTTCC TGCTAGCCTG TGGTCATGAG ATTTTTGTCA AACAATCACT ATATAACCTT TTCTGTTTCT GTTTAAAGAC ATGTTATTTG 102300 ATCTATATGG TTGATTCTTT ACATTAACAT GGCCAACAGC ACTGTAACTC AGCCTGAACG 102360 AAGCTTATCT GACACATGGT GTTCTCCATA AGGCACATCA TAGCTTTCTG TGCTTAGGAA 102420 CACTAGACGG CACTTCAGCA CTGCACTTGA GGACGTTTTA AACAGTGAAA TCAACAAAAA 102480 GCACAAAAA ATGCAACAAT AGGCTGGGCA AGGTGGCTCA CGCCTGTAAT CCCATCACTT 102540 AGGGAGGCCG AGGCGGCGG ATCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACG 102600 GTGAAACCCC GTCTCTACTA AAAATACAAA GAATTAGCCG GGCGAGGTGG CAGGCGCCTG 102660 TAGTCCCAGC TACTCGGGAG GCTGAGGCAA GAGAATGGTG TGAACCTGGG AGGCGGAGCT 102720 TGAAGTGAGC CGAGATTGCG CCACTGCACT CCAGCCTGGG CGACAGAGCG AGACTGCGTC 102780

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TCAAAAAAA AAAAAAGGA ACAATAACAA AGACACTAGT CCCCCAAAAA TACACTTGTT TACAGTGTGA ACTGAAAGAG GAAGGTGGAG TATTGACTTG TTTGACCTCA GCTGGAAATG 102900 TGCACGTCCT GTGACTCAAA TTTTTCTCTG TTCTGTGCAT GCATGTCCAC GAATAACCAC 102960 AAGAAGCACT GAAAGCATTG ATTTTTAGGG TTACAAATTA ATTTTAGCAA GTAAATGAAT 103020 TCACAAATAC GGAATCTGTG AGTAATGAGG ACTGATTCTT TTTTTTTTTG GAGATGGAGT 103080 TTCACTCTTG TAGCCTAGGC TGGAGTGCAA TGGCATGATC TCGGCTCACT GCAACCTCCG 103140 CCTCCCGGGT TCAGCCTCCA CCTCCCGGGT TCAAGCGATT CTCCTGCCTC AGCCTCCCGA ATAGCTGGGA TTACAGGCTT GCACCACCAT GCCCGGCTAA TTTTTGTATT TTTAGTACAG ACGGGGTTTC ACCATGTTGG CCAGGCTAGC CTCGAACTCC TGACCTCAGG CAATCCACCC 103320 ACCTCAGCCT CTCAAAGTGC TGGGATTACA GGCGTGAGCC ACCGCGCCCG GCCGAGGACT 103380 GATTCTTATG TCAGATGGCA CTAAATGCTA TGGAGAAGAG GAGTGGATGA GAGGGAGAAG 103440 TATTTTAGAC CAGGTAGACT TGGAAGGTTT CTTGGAGGTG GGTGATGTTT GAGAAGAGGC 103500 103560 TTCAATAAAG TTAGGGAGCT CGCCATGTGA TTGCAGGAAG AGCGTTCCAG GAGAACAAAA GTCATGAAGA GTGAGTGCTA GGCATGTGTC TGGTCTGTTT GGGCTGCTAT AACAAAATAC 103620 CTTAGACTGG GTAAAATGTA TAAATAATAG AAGTGTATTG CTTATAGTTC TAGAAGCTGG 103680 GAAGTCCAAG ATCAAGGTAT CAGCACATTC TGGTGAAAGC TGCTCTGCTT CATGGCTGGT 103740 TCTCTCACTG TCCTCACATG GCATAAGAGG GGCACAGAGC CCTCAACCGT CTCTCCAGTG 103800 GCCCCATCTC TTAGTACTGT TGGATTGGGG ATTTAGACTT CACTAATTTT GGGGGGACAC 103860 AAACATTGAG ACCACAGCAG CATGACTGAG GATAAGCAAG AGGCCAGTGT GGTTGAGCAG 103920 AGTGATCAGT GAAGGAGAGT TAGGACATGA GTAAAGAGGC TAGCAGACAC CAGATCTCAT 103980 ATGGCTTTGT AGGCCATAGT GAGGACTTTG TTTAAGCTGA GAATAATAGA TAACCTCAGG 104040 AAAGTTTCAG GCAAGAGGGT AACATGATCT GATCTGGGTT TTAAAAGGAT CACTGAAGTG 104100 GGGAGACTGT CTACAGATGG TCTGAATAGG AGTCCTAGTC TATTACAATC TCCTTGGAGT 104160 TTAGGGTGGT AACTGGAGGT GTTCAAGAGT AGTTGGATTA CTGTTGGATT TCAAAAGTAG 104220 AGCCAACACG ATATGTGCAT TGGCTGTGAG GTAGAAGAGG AGTCAAAATG AACTCCAGGT 104280 TTTATTGACT GAGCAATTGT GCCATTTCCT GAGATGGGTC AGATTTGGGA AGGAAAGAAT 104340 TTAAAGGGGA TAAGATAATC CCATTAGGAG TGTGTTAAGT GTGAGATTCC TATTAGACTT 104400 TCGAGTGGAG ATGATTTAAT AGGAAGATAG ATCTGCAACA CTGGAGCTCA GCGGAGAGGG 104460 ACACCCTGGA GATAGCCGTT TGGGAATTAG GAATGTGTGG ATCATGTTAT AGGATGGGGT 104520 CATTTAGGGA CTTAAAACAG CTCTGAAGAA CAAAAATGGT GCCTTGATCT TGGACTTCCT 104580 GGTTTATAGA ACTGTGAGCA ATATATATAT ATTTTTTTCA AGACAGAGTC TTGCTCCGTC 104640 ATCCAGGCTG GAGTGCAGTC GCACCATCTC GGCTCACTGC AACCTCCACT TCCTGGTTCA 104700 AGCAATTCTG GTGCCTAAGC CTCCCAAGTG GTTGGGACTA TAGGTGTATG ACACCATGCC 104760 CGACTAATTT TTGTATTTTT TTGTAGAGAC AGGGTTTTGC CATGTTGGCC AGGCTGGTCT 104820 CAAACTCCTG ACCTCAAGTG ATCTGCCTGC CTTGGCCTCC CAAAGTGCTT GGATTATAGG 104880 CGTGAGCCAC CATGCCCAGA CTAAATTTCT AACATTTATA AATTATCCAG TCTAAGATAT 104940 TTTGTGATAG CAGCCCAAGC AGACCAAGGC AAAGGCCAAG CACACTTGCT CCTCCTGACT 105000 TTTGCTCTTC CTGGAATGTT CTTCCTTTAG TCACATGGTT GCCTGCCTAG CTTCATTCAA 105060 TAGGAGTGTG GTGCCCTGAA AATACAAGGA AGAATGCTTT TCTTTTTTT AAAAGGAAGG 105120 GATGATTATC TGTCAGATGC TGCTGAAAAA GAGTAATAGA GTAATTGGCC ACTGGCTCTG 105180 GCAATAGGGA AGTTAGCTCT GCTAACTCCA CATGAACAGT TTCACATGAA CAAGTGTGAG 105240 TGGGCTCAAG AGAAGGGATG GTGAGAAAGT GGAGCTATGG ACTCACTCTT GAAACATTTT 105300 CTGGTGCCTC GTAGGGCAAT GTGAGGTCAA GGTTTTTGTT ACTGTTCTGA AGATGGGAGA 105360 GGCTGACACA TGGATGTTGT AGGTGAGAGA AGGGGCGCTT GCGGGGGCAA ACTTCTCCAG 105420

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GGATGGGATT CCAGTGTCTA AGAGGAGGCG GTGTGACCCT AAGAGCTAGA AAAATTATTT TATTAATAGG AAAGACAAAG TACTTAGGCT CAGATGCTAA GAGATTTGCT GATAAAAGAA 105540 TGAGAACGGT CTCTTCTGAT TATTTTCTTG GGGAAATAAA TAGATCATCA GCTGAGGGTG 105600 TGAGGGGAGA AGGAGTTGAA CATGGAGGAA GACAGGTGTG AAATATTGGT CTCAGAATGG 105660 AGAGCGAATT GAATAGGGAC ATGCAGTGGG CTTGCTAAGC TGTGCGGAGA GCCCGTGGGA 105720 AGTTTATGGT CATCAATTTA ATGGCGACCA GCCAAGATGG TGGTTTATTT TTCTCCAGTT 105780 GTATTTAACT GCTCAGGTGC AGGACAGAGA GACTAAGTGT GAAGTTAATT TCAGCCAACG 105840 TAGAGGAATT GTCAGGCAGA TGGGACAAGG AGATAGAGGA GAAAAGGAAT AAGGCTTCCT 105900 GCAAGGGTAA TGATTGTAGG GATGGATAAG TAAGGAACAC AGGAAGTGGC TGTCTGCTGA 105960 GTGGTGGCAG AGCTCAGTGG GTCAGAGCAA GGTTCAAAGA ATGGCAGAGA GGCACTTGTG 106020 GAGGAAGTAA GCTGGCTAGA AAGTAGTGTG CTTGAAATTA AGCTTCTGGA GATAGCAAGG 106080 TTACAGGTGA TGACAAAGTC TGAGTATGAC AAGGAAACTG CAGGGCCAGA GTTGGCAAGA 106140 ATTCATGAAA AATGAGGAGA AAGAGGCACC AAGAGGCTGG GATAGCACAT GGATTGTCTC 106200 TGTGTGAGGC AAAGTCATCT AAATGGCAGC AGTGGCCCTA GCAGAAAGAA ATATACAGTG 106260 AGCCGGAGCA AAAATCCTCA AGGACAGGCA GAACGCCATG AAAACGGCAG ATGACAGCCA 106320 AAGGAGCAGG GGCAGGGGCT CAGTCCAAAG TGTTTCAGAG TCACTGGAGG GTTGAGTGGG 106380 AAGGGGAGGG AGTGGCTGAA ATGGCAACAA GGAAGAACCT CTCTCATCTC CAGGCCCAAA 106440 AGTATGTGGA ATGCGGGAGA TAAGACAGCC ACCACTGGCC AGGGCTGTAA AGGGACATTC 106500 AGCGAATATT CAGGTTCCAT TTAGCACGAC AGCAGGGAAG GGACTGTTGG CAGAAAAAA 106560 CTGGGGCAGT GGGATTAAAG ACAGACCACA CATTCCAAAA GGCACCGTGG GAGGGTCAGG 106620 GGGCGAGGTT AGGTCTAGGC TTCAGTGTCC TGGGAGACTC AGTCTTCACA GGGTGACAGC 106680 GATCAAGAGT GCAGCTTAGG CTGGGTGCAG TGGCTCATGC CTGTAGTCCC AGCACTTTGG 106740 GAGGCCGAGA CGGGAGGATT GCTTGAAGCC AGGAGTTTGA GACCAGTCTG ACCAACATGG 106800 CAAAACCCCA TCTCTACTAA AAATACAAAA ATCAACTGGG CATGGTGGCG TGTGCCTGTA 106860 GTCCCAGCTA CTTGAGAGGC TGAGGCAAGA GAATCACTTG AACCTGGGAA GCAGAGGTTG 106920 CAGTGAGCTG AGATCGTGCC ACTGCACTCC AACCTGGGCA ACAGAGTGAG ACCCTGTCTC 106980 AAAAACAACA ACAACAAAAA AGAAAAGAGT ACAACTTATG AAGGGGTCTC CTGGGGAGAG 107040 GGTTTTTGGG ATTCTCCTGC CTCTCAAAGT GCTGGGATTA TGGGCGTGAG CCACCACACC 107100 CAGCCGAGGG AGGCTGAGTT CTAATTGTTG TATCTCTCTT GGGATTGGCC TCCTGGGCAG 107160 TTTAAAAGAC AAGGCAAGGA ATCTTTTGGA GAAAGAGACT GGGGGCAAGG TGTGTCTGAA 107220 CAAGAAGTGT GAGAAGCTCT GTGGGCTCCC TTCAGACTTC CAGTCGTTGA ATTGGGATCT 107280 CATTTATATC AGCTCTAGGT GTAACGATAT TAAATCTTCT CTGTCATTTG GCAATTTTGG 107340 TTTATGCTTG ATCATCATTT TTAATGTTTC GACATGTAGA AGTTTAACAT TATTTTACAT 107400 TCTTTTCCTT CTGGCATCAT GTTTTAGCAA GATTGTTTCC ACCAAAAGAA TATATATATC 107460 TTCTAATGAA ACTACGTTTC TTTTTTTTT TTCCTTTGCT TTCTCTTTTG GTATATGAAT 107520 CTTTGATTAT TTGTAATGTA TTTTGATGTG TAACACTGAA GTTTCTATTT TGTACTATTT 107580 TTTTCCCCAA ACAGTAAACT TATTGTTCAA ATACTTATTG AACAACCTTC ACTATTCTTT 107640 AACCATTTAG AATACGCCAT TCACATATCT TTCATACTAC ATTTAATAAC ATTTTTAAT 107700 TAAAAAATAT TCTACTGATT TGTTTATTTT GAGACCAGGT TATGAAACTG GCTAATTTTT 107760 GTATTTTTGT TAAATACCGA AATTCACTGT GTTGCCAAGG CTGGTCTCGA ACTCCTGGGC 107820 TCAAGCAATC TGCCCACCTT GGCGTCTCAA AGTGCTGGGA TTACAGGTGT GAGCCGCTAC 107880 ACCCGGCCAC ACCCGGCCAA CACATATTAT TTGTTATTAC ATTTAATTCC CACAGTACAT 107940 TGAAATTATC AGGGAAAAGT TTTCAGTGAA ACATTATTGA ACGCCACATT AAAAGTGTAA 108000 ATTACAAAGA TTTAATGCCA ATTTTTCAGA AGAAAAAAGA CCAGGAGGAA GGTCTATGAA 108060

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GTTTTAGCCA GTCTCTCATC CACCTACCAT TTCACGATCA TGCACTGTGT AAGTCAGGAA AAGAGTAAGA AAAGTGAAAG ATACAATTGA TTAGAGAGTT TTGCTGGATA CTATAGATGA 108180 AAAGAACACA AAATGGAACA GCCTCTTCAA GCTTAGAGTC AACGGCTGTA GTCCCAAAGA 108240 CTGTAGTCAG AGGCGGTAGG GCCAAAAGAC ATGACTTATG GCATTGGAGG AAGAGGATGC TTTGGGAGTT CATGGTAGAA GAGGCGGAAA AAATCTGGTG GATTAAAGAA AGCATCCCAA 108360 AGTGACATTA AACTAATGAC TAAATTCTGA GCTGTTTTCA GGGGCAAAGC CTGTTTGGGC ACCCCTGCCA CACTTAAAGA GTCACCTAGG TATGGTTCGT GGGCTCTGAA CAGGCCTGCT CAGTGAACAT ATTTGTGACT GTTTCTCCGG CCCTTTTAGC TGTATTGAGT AAAATTTAAA 108540 GAGACCATTG TTTTGGCCTA AGCTCCTGCC CTAGGCCCAA AGAACAGACC AAACCTGAAT 108600 GGCTTCACTT GTCCTAGGTG CTGTGTACTC AAACTGAACT TTGAAACAGG TCGGTTTTTC 108660 AAAAAAGCA AAAGATTCAC AGCAACCAAT TAGAAGAGGC CCGGTCAACC TGAGCCAGCA TGATGAGGCT CTTCTGCTTT AATCCTACAA GGAAAGAAAC TTTGAAATGA CCAATCTGCT 108780 TTCATTCTTG GTTTCTGCTT TCTTTGGTCT ATTTCTGCCT GTAAAACCTA TCTCCTCTGC 108840 TCAGCTCATT GAAGTACCCT TCTATTTATA GATGGGATGC TGCCCGACTC ATGTATCGCT 108900 AGTAAAAGCC AATTAAATTA TTACACTCGA TTTGTTGGAA TTTTGCTATT TTGACAGCTT 108960 TTCAAAAACA CCAGTAGGTT CACATCCCTA ATTCCCCAGC CAGTGTTCCC TCAAGGAACC ATGGAAGAAG CAAAGGTGGC TGAAAGGCGC CTCAGGATGC TTCTAAGCAC GGCACATCCA 109080 TGAAAAGGCA CTTACTAATA TTTGCAGGAT AGCAAAGCAC TGCAGTGACG ATAAATCTAG TATTGGAGAA GTTCAAAATA ATCAGTAGAT TAACACAGAA GCCAGAGCTT ATAGGGAGAA AAGGAACCCT ATGAAATACT TCAAATCCGA AAACGAACAT GCATTTCCTG TTTAGTTAGT GCAGGTACGT AAAAGCTTGG TAAAGTACCC TTCTTGCCAG CTTTCTCTTT CTTACAAGCC 109320 TTTTCACTGG GCTGGGAGGC TGATATTATC TAAATATGCT GAGGAGGTTC AAGTATCTCC 109380 ACAACTCACC TCAGAGTGAA TGCTCCCCTC GGCCTTAAGG CAATATAAAC CAGCCCTGTT 109440 TAGCAGGATA GCAAAATGTT TGCGGTTGTA AACTGGTGTC CCATTGGCTG TGGCGCTTGT 109500 GGTGTAAAGA ATCCCTGTGC TTGGTAATTA ATAGAGAAAT TCTATATTTT AAACTTCAGT 109560 TGTATATTGG CTCTTATCCA TGGCAGATTT TCACGTATGT GTTATTTTT TATTTATTCA 109620 GAGCCGGAGT CTCGCTTTGT CGCCCAGGCT GGAGTGCAGT GGCGCGATCT TGGCTCATTG CAGCCTCTGC CTCTTGGGCT CAAGCAATTC TTCTGCCTCA GCCTCCCTAG TAGCTGGGAC 109740 TACAGGTGCA TGCCACCACG CCCGGCTAAT TTTTTGTATT TTAGTAGAGA TGGGGTTTCA 109800 CCGTGTTGCT CAGGCTGGTC TTGAATTTCT GAGCTCAGGC AATCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTATAG GTGTGAGCCA TCATGCTCGG CCCTATGTGA TATTTATTAC AATGAATTCC AATGATCAGA CCTATACTCA AGTATAAGTG AATATATCAT TCAATGAAGT 109980 ATAAATGATC ATTATGTTCA TATTCACACA TACAATAATG TACTCAAGTT TATTGCTAAG 110040 GTAATTCAGA ATCTCCTTAT TTTGAAGTGT GCATTTGATA TACCTGTTTG GGAATAACTA 110100 AAAAATGGCT CCATTTCTAA GAGAGGTAAC TAAAATATCG CAATTTGCTG GGTGTCATTA 110220 AAGTAACTCA CAAGGGAAAA AATGCAAATT GGTATCTGCT GATGGAGTAA ATCTCCGCAG AAGTGATGAC CCTGAAAGGA TCAATATATT AAAGCCCCTC CCAGCTGGTC ATTCCAGATT CAAGTCCTTT ATTATTAATT TTATAGACCT ACTTAATTAC TAAGCCAAAA AAAATCAAAC 110460 TTGTTTCTCT TTGTGACTTG TCAATAGTAT TAAACTATTC TGGTTTTTTA TTTTTGTGTT 110520 ACCTTAAAGT CTCCAGTTTA GTAATTTTTC TGTACCTAAA CACTTCGGAT TTGACATGCT 110580 TTGTGGCCTT TATCAGTAGT TAGAATGTAA ATCCAATAAA TAAAGTAAAA GCCAGGTCTT 10640 CAAAACCTGG GGGCCAAGAA CTCTGTTTTA GAGGGCCTGT GACTCTCTTG GACACTGGAC 110700

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AAAATCTCAT CTCTAAATAT GGATATTTTA GGGAGAGGGT CTTTAGGCTG TCATTTGGAT 110760 TTTCACAGGG CTCCATGTAT CCATAAGGTA GTCTCTTGGG AAGTTTGACT TCAATAAATG 110820 AAGTTTAACT TAAACCTAAA ATGAAATTTA ACTGAAAAAC AAAATCCAAT GAAAGATGCT 110880 TTCTTATGCA AAAACAAACA AACAAAAAA AAACAAAAAA ACCCCAAAAA ACCCAAAGCC 110940 AAAGATTGTT TCTGAAATTA GGTTCTAGGT TCCAGAGCAA CTCCATGGTG GGGAATCAGC 111000 CACATGTAAA GTAAGCTAAG AGTTTGGACA ATTTGTAATA TTTATTCCTA GGTTTCTTTA 111060 AGACCCTTTC AGATTTTGAA TTCCTATTAG TAGCATCAGC CAGGTTCTAA ATGTAGGCAT 111120 CACCATAGAC ACTTCCCCAC TGCTGCAGTC CCCAACACTT GCCCAATTTT CCCTTGAATT 111180 GCACCCATGC TGCCTTCTCC AGGCCTATTT GAACCCAGAA CCTCGTTGTG CCTCGTTTGA 111240 AATATAATTT CCTCCTAACT AGTCTCTGAT CTACTATTTC CCCTACATTG CTGCCACACT 111300 AATCACCTAA AATAGATTTC ATTCTACCCT GAAACAGAAA TCTCTAATAA GTTACTCCCT 111360 TCCCTTACGG GGTAAAGTTA GCCACATCCT AGGTATTCAA GGACCTTCCA GGAGCTAAGA 111420 ACATTTCCCC TGCACCTTCT TGAAGTACAC TTGTCCTATG TACTGGTTAT GTTCATTTCT 111480 TACCCTCGCT CTCGTTTTGT CTGGAATTTT CCTTGGCCTT AAATGCCTCT CACCTGCCTG 111540 CCCACATCTC TCAGGGTTGT TTCAAATCCT CAATGAAGGC TCACAGCCCC AGTCTATGTT GGCCACTTAC TTCGTGGCCT GGGAACATTT TTCTTTGGCT GACTTGCTGA CACTCCATCA 111660 GATGCATTTT TATCTGGTTG TCCATCTGTG AACCATACCC TGAGAAGGCA GAGAGTGCCT 111720 CTGCACTGAA CATGTGCTAG GGGACAGGTC TGTGCTAGAG GGGCAAGCAC TGGGAATGAA 111780 GAACTGGTCC CTACTCCCAA GGAGTTCATA TCTCAGTGGA GGTGACAAGC AACTCACTGT 111840 TTCCGGGGGT TGTGGTGACT GCTGGGAGAA GGGGTGTCTA TATTAGATCG AAGCAGCATC 111900 AGGGGAGGTT CCCTGAGAAG GTGATGCCTC AGCGGATGTC TCCCAGCTAA GTGGGGTGGA 111960 GGTGGAGAAG GGCAGAGCAG GGAGAGGATC TAGGTGGGGC GTGTAAGTCT GCATGGGTAA 112020 CTCAGGGAAC CCTTGGTAAC TGCATGTAAC TGTGTGAAGC TTTCATGAAG GAACATGGTA 112080 GGAGACTAGG GTATGGACTA TAGAAGCCCT TTTGCTAAGC TCAAGAATTT GAGGCCGGGA 112140 GCGGTGGCTC ACGCCTGAAA TCCCAGCACT TTGGGAGGCC AAGGCGGGCG GATCACGAGG 112200 TACAAAAAAT TAGCGGGGCG TGGTGGCGGG CGCCCGTAGT CCCAGCTACT CAGGGAGCTG 112320 AGGCAGGAGA ATGGCATGAA CCCGGGAGGC GGAGCTTGCA GTGGGCGGAG ACTGTGCCAC 112380 TGCACTCCAG CCTGGGCAAC AGTGCAAGAC TCCATCTGAA AACAACAACA ACAACAAAA 112440 ATTTGAAGTG TATCTTGAAG GAAATCCCTT GGAGCCTAAA AATGATCATT GATAACAGAA 112500 AATGATCTCT GCTCTCGCCT AGGGTAATAT ATTCAGCTTC AAAGTGGAAG GGCATGTTTT 112560 CCAAGGGCAT GTTTTCTAAG TCCCTGTAAT TGTAGTGATA GCAAATATAT GCCCTGCATC 112620 TTGAAATGTA AGACTAGGTT TGAACAGTAT ATAAATTATC TTATGATCTA ATTTCCCCTC 112680 ATTTTGTGGT TTCTACTATA AGCTACCCAG AAGTGTAGAC AGGACGTTTG GAATTTGATG GCCTTGCTCT GTCACCCAGG CTGGAGTGCA GTGGCACGAT CTCAGCTTAC TGCAACCTCC 112860 ACCTCTCAGG TTCAAGTGAT TCTCCTGCCT CAGCCTCCTG AGTAGCTGGG ACTACAGGTG TGCACCATCA TGCCTAGTTA ATTTTTATAT TTTTAATAAA GGCAGGATTT CACTATGTTA 112980 GCCAGGCTGG TCTTGAACTC CTGACCCCAT GATCTGCCCA CCTTGGCCTC CCAAAGTGCT GGGATTACAG GTGTGAGCCA CTGCGCCCGG CCTCTAAGAA AATTTTTGAG AGCTACTTGT 113100 TCTGTTGCCT GGAATTCCAC CGTAAGTACG ACGTTGTGTC TCCTTCTCCA GGGCTACTAA 113160 CTAAACAACA GAGGGTATTG TGTTATCGAC AATTATTTGA TTGATAACTA TCAGCAAACA 1 13220 TTTGCCAAGG CATTCCTTTA AAGATAGCCT AGTGACTCTA TTAACTACTC CTTCTTCCAG 1 13280 GCTTCTAAGT TCTGTTGGAG GTAAGTAGAT CCCAGAGATA AAGCACCTAC CATAGGACCT

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GAATCTTGGT AGAAATAAAT TATATCATCA TGTTATCATA TTATCATGTG TTTTTCTATC 113400 TTTAAAGTCT TATGTGAATA TTCTGCTTGA AAAATATGTG TCCTCTGTTA GACCAGAGTT 113460 GAAAATATGT TATTCAAGAA CTTGTAACAG GAACCCGCAC AATTTCTGCT GGAGTTTAAT 113520 TTCAGGGTTA ATTCTGTCAG CAATCTAAGG TAAACATTAA CATTTTTCCC TAGATTCAAG 113580 TCCGTTGTCC AAAAGCTGTA ACAGAACTTA ACTGAATAAA TAGTTTCTTA AGATGGTAAG 113640 CTTCCATATG CTTATAATGA CTCCTCTACA CGTTTTCATC TGGAAGGCTG CTCATGCTTT 113700 TGGAAGCAAA GAAGACAATC TTAAATAACT ACATTTGCTT TTTGGTGGTG CCAGATTTTT 113760 CTGAGAAACA CCAATGGAAT TTATAAATTC ACCAGTCAAT GGGCAATTGA GTTGCTGTTT 113820 TGCTATTACC ACTGCCGTTT GTGAGCATTG TTGGGAAGGT GTCTTGAAGC ACACGTGCAA 113880 GTTTCCCTTG GATAAGTAGT AGGAATAGAA TTGCCAAACC ATGGCTTCCA GTGCAGACAC 113940 AGTCTCTCCC TTGGGCCCAG CCACTAGGCA CCACACATTA AGAGGATATT GTCTGTCCAT 114000 GTCCTAGAAA CGTTGTAGCA TCATGCTCCT ATTCGATTAA AAATCTCATT ATTAAAATGA 114060 ACCATCGGGT AAATGTTGTC TCGGGAAAAG AAGCACTGAC CGTCCCTGGG TGGGCTCGAA 114120 CCACCAACCT TTCGGTTAAC AGCCGAACGC GCTAACCGAT TGCGCCACAG AGACCCAGTT 114180 ACTCAGGCCG CGCTGCGGTG TGTACAGATT TCCGCGGCGC CGGCAGCCGC TCTAGCCACC 114240 CTGGGCGTCG CCACCCCAGG CGTTGCCACC CCAGGCACGG GCTGAGAAGT CGCGGGGCGC 114300 GCCGAGGAGG CAGCGGAAGC GGCCGAGGTG CCCAGCGGCC GCCGCGGGG GAGAGGCTGT 114360 GCCCGGCGC GCGGGAGGGG GCGGGCGAGG CCGCGTGACT CCGGGCTTCT CTGGGGACGA AGCGCGCCC TCGTGGCGGC AGCGGCCAGT GGTCCGCAGT CGGCCCGGAC TCGGGGTAGG 114480 AAAGATCCTC TCAGCAATGG CTGCGCGCCA TGCGTGCTCT GCGGCGGGGA CCGTGCCGGC 114540 CGGGCGCGCC ACCAGTAACC AGGGACCCAG GGGAGAACCT GCCAAGGGGA ATAGGTCGCA 114600 CGGAGAGAAT ACGACACGCT TGGAGGGAAG AACCACGTGC TGTACAGGTT TAAAGGATGG 114660 AGAGTCACGT GCGCTTAGGT CCCAAACTTA AGGGACCTAA CCCTTTTTCT GGGTTGCCGC 114720 TATTGCCCCT TCTCCTTAGA CAGTTTTTCA TCTCATCACC TCTCACCCCG TAAAATGCAA 114780 CGAACATAGA TAGGCTGTGT ATCAATGTAG ACTGTATGTA TATCTGTGCT TCGTACATAA 114840 AAAGAATATG ATTTTTGCCA CCTTCTAAGA ACCAATTTGC ACCCCATTTT GAGGCATATG 114900 GCCTCTGTTG AGATTGCATA GTTTAGGGGA CATCAAAAAA GCCTTATAGA GGGACTGGCA 114960 ATTAAGATAG CCTTTCAGTT TGAAATGGCC ATTGAAGGCT TCTCCCTTTC CCTGACTTCT 115020 GAATTTTTT TTTTTTTTT TTTTTTTT TTTGAGATGG AGTCTTGCCC TGTTGCTGGA 115080 GTGCAATGGC GCGATCTCGG CTCACTGCAA CCTCCGCCTC CCGGGTTCAA GCGATTCCTG CCTCAGCCTC CCGAGTAGCT GGGAATACAG GCGCCTGCCA CCACGCCCAG CTAACTTTTG TATTTTTAGT AGAGGCGGGG TTTCGCCATG CTGGCCAGGC TGGTCTGGTA CTCCTGACCT CGTGATCCGC CCGCCTCCGC CTCCCAAAGT GCTGGGATGA CATTACAGGC GTGAGCCACC 115320 GTGCCCGGCC AATTTTTTTA GGCGCACTGT TCAGTGGCAC TAAGTACATT CACATTGTTA 115380 TGCAACTATC ACCGCCATCC ATTTCCAGAA CCTTTTCATC TTCCGAAACA GAAGCTCCCT 115440 ACCCATTACA CGGTAACTCA CGATTCCCCT CCTCTAGTCG GAACAATCAC CATTCTACTT 115500 TCTGTCCCTT TGAATTTGAC TACTCTTAGA GACCTCATGT AAATGGAGTC ATACGGTGTT 115560 TGCCTGTGGC TGGCTTATTT CACTTACCAT ATGTCTTCAA GGTCCATCCA CGTTGTAGCC 115620 TGTGTCAGGA TTTCCTTCCT GGATAAGGCT GAATAAGCTG CACTGTATGC AGGTATCGCA 115680 TTTTGCTTTT CCATTCATCT CTCCGTGAAC ATTAGGGTTG CTTCCACCTG CAGCTATGAA 115740 CATGGGTCTA CAAATAACTG ATTCCCTGCT TTCAATTCTT TTGGGAATAT ACCCAGAGAT 115800 GGAGTAGCTG GATCACATGG TTTGCTATTG GCTGTACCAT TTTACATTCG CACCAACAGT 115860 GTACAAGAGT CCCTATTTCT CCTCATCTAT TTTTTTTTTA AATAATGGGC ATCCTAATGG 115920 GTATGAAGTA TCATCTCATT GTGGTTTTGC TCTGCATTTC TCTAACGATT AGTGGTGTTG 15980

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GGCATCTTTT CCAGACACCA CCAATCTGAA TTCTATGGCC CTTCGTTTAC TCACTTCCTC 116040 CCAGCAAGAG CCATTTCTGC TTCAGCAAGG AGGAAGCTGC GACTGATAGA GGGAAAGGGC 116100 CCAGGGGGCT TGCAGAGTGG GGCCTGTGCC ATGCAAGGAG AGGAGAAGAA GGTGGATCTT 116160 TGAGTAGGAC TATCTGGAGA TCCTGCTTTC ACAAGGTCCT TGCTTGTGTG CTGGGCAGCT 116220 TTTGGAGCTA GTTATCTTTA TTTTAGCCCT TGAGGGATAT TTAGGCATGT GGTGCTTGTG 116280 AGCAGCCAAT CCATGAAGAA GGAACTGATG GTCTCCACCT TGGAAATATT GGAAGAGATA 116340 ATGCCGTCCA AATTGCAGTT TTAGAAGTTA ACTTAAAATT ATGCTATTTT AATGGAATTT 116400 TGGGTGCATT TCCATTTTCT TCTTAAGAAT TGCTGGAATT TCTTAAGTGT TTAGGTGATG 116460 ATCTCTTTTT GTGATTCCTT TTTTAAAAAA CAACAACAAA ATCTTTCAAA TACATAAGAA 116520 ATAGGCCGGG CACGGTGGCG TAATCCCACC ACTTTGGGAG GCCGAGGAGG GCGGATCATG 116580 AGGTCAGGAG ATCAAGACCA TCCCGGCTAA CACGGTGAAA CCCCGTCTCT ACTAAAAAAAT 116640 ACAAAAAATT AGCCGGGCGT GGTGGCGGGC GCCTGTAGTC CCAGCTACTC GGGAGGCTGA 116700 GGCAGGAGAA TGGCATGAAC CCGGGAGGCG AAGCTTGCAG TGAGCCTAGA TCGCACCACT 116760 GTACTTTAGC CTGGGCGATG GAGCAAGACT GTCTCAAAAA AAAAAAAAG AAAAAAAAAG 116820 AAAGAAATAG ACCTTTATTT TTCTGTAACT CCACAAAATT TCTATTTTGA TTCCCTATTA 116880 TTTTGCTATT GTCAACACAG TCTCAGTCAA TTCAAGATCC TGTTTGTGCC TTTCCCTGGA 116940 GTCATTTCCA AGTGCTAAGG CTTTGGTCCA TGAGTCGCAT GTGCACACTC ATGGCTGTAG 117000 AGGGAGTTTT GCTCCCGGTG AAGGTCTTGG TGGCTCTTCT ATACCTTGAT TGAGGGAAAG 117060 GAATCTTATG TGAAGTTAGC TTTGTTGTAT CAGATATTCC ATAAAGCCAT TTCTGGGACA 117120 GTCCCCTCTG TTTATCGGAC CACAAGCTTC TCTGTCCTCA TCAAGCCCAC CTTTATACTT 117180 CATTTCTCCA GACTTCATGT CCAGACTGTG GGATGAACAA GTGGTTATAA GGTTTTAGAG GCTCCTGTAG GACTAGATGG AAGGCAAAAA AAGGAAATAA CCTTTAAGCA TGCTCTCGAT TCCTTAAATC CCATCTGAAA GTCTTAAGGA TGTCTTCTCA GTCATACTTA TTTGACAATA 117360 TTACCTAATT TTCTCCATTA GCCCAAGCTC AGGGGTCTTT CTTCTTCCAT ATTCACATGG 117420 GTGCAATGGT TTTCTGAAAG GAAAACAGCA TTACTAGGGC AGTAACATTT AATTAATCAC 117480 AGGTACTTAT CAAACTACAA AACAGGCATT CCAGGAACTG GGTGTTTCTG TTTGTAAAAT 117540 TACACTCTCG TGTACATGCT CCCACTAAAA TGTAAGTTCG CTGAGGATGG AGGTTTTGGT 117600 CTCTTTGCTC TGTGCTGTAA CCCCAACACT GCAGCAGGGC CTGGCACATA GCAGGCATGC 117660 AGGGACTATG CACTGAATCA ATGAGGAAAT GAAAACCAGG ACCATGAAGT AAACTGGACA 117720 AAATAAAATG TGATAGAAAA TCTAAATTCC TAATACATAA GGAGCACTTA TCAATTGATA 117780 TTTACAAAAT CTTTTTACAA TTCAATTAAA GACAACATAA AACAAATAAG AATGGGGACA 117840 GGAACAGAAA ATTCCCCCAA AGAAAAAAAT ATATATACAT GGTACAGCCA TTGTGGAAAG 117900 CAGTATGGAG TTCTCAAAAA TATTAAAATA GAACTATCAT ATAATCCAGC AATCCCATCC 117960 CTGGGTATAT ATCTAAAGGA AATGAAATCA GTACCCCAAA GAGGTGTCTG CACTCCCATG 118020 118080 TTTATTGCAG CATTAGTTAC AACAGCCAAG ATATGGAATC AACCCATCAG CAGATGAAAG GATAAAGGAC ATGTGATACA TATACACAAT GGAGTAGTAT TCAGCCTTAA AAAAGAAGAA 118140 AATCCTGTCA TTTGCAACAA CATGGATGAG CCTAGAGAAC ATACTAAATG AAATAAGCCA 118200 GGCATAGAAA GACAAATGCT GCATAGTCTC ACTTAGGTGT GGAATCTAAA AAAGTCAAAT 118260 TAAAAAAAA TGTCAAGCAG AGAATAGAAT GGTAGTTGCC AGGGACTCTG GGAAGTAGCA 118320 GGGGTGGGGG TGGAGGGGAG GGGATGGGCA GAAGTTGGTC AAAAGGTACA AAGTTTCAGG 118380 TAGACAGGTG TAAGTTCTGG GGATCTATTG TACAGCGTGG TGACTGTAGT TAATACTGTA TTGTGTACTT AAAAATTGCT CACCAAAAAT GTTCTCACCA AAAAAATGAT GTTTGGATAT 118500 GTTAAACAGT TTGATTTAAT CATTTTGACG TGTGTGTGTG TGTGTGTGTG 118560 TGTATACATC AAAACATCAC ATTATATACC ATATACAATT AATATATACA ATTTTTGTCA 118620

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Inventors: Anna Helgadottir

AAGAAAAAT GCACATGACC AATATGATAA AAGTTTAGTC TCACTAGTAA TAAAAATCAA 118680 AATTAAATGA AATAAAAATT TCTTTCCCCA AATCGCAAAA GAGAAAGAAA GGTAATACTA 118740 AAACACAGTC ACGGTGTAGT GAGAGGGCTG CTCTCACACA GGACTGATGA GAATAAAATT 118800 GGAGAGCAGT GTGGTAATAT ACATATTAAA CAATGTATAT ACCCTCTCAT TTTAGAAATT 118860 CTATATTAGA AATCCATCCT AAGAAAATAA CCAGGGATGT GATCAAAATT TTGAATGCAG 118920 CAGCACAGTA TTATTTATAA TAGTTATAAA TAAGAAACAA CCTGAATGTC CAGCAACAGG 118980 CAAAAATGAT AAATAAATTG TGGCATATTT AAGCTGGTGG CTCATGCCTG TAATCCCAGC 119040 ACTTTGGGAG GCTGAGGCAG GAGGATCTCT TGAGGCCAGG AGTTTGAAAC CTGTCTGGGC 119100 AACATAACGA GACCCAGTCT CTACAACATA TTTTTTAAAA TTAGGTGGGG CATGGTAACT 119160 CATGCCTGTA ATCCCAGCAC TTTGGGAGGC TGAGGTGAGC AGATCACCTG AGGTGAGGAG 119220 TTTGAAACTA GCCTGGCCAA CATGGTGTAA CACCATCTCT ACAAAAAATA CAAAAATTAG 119280 CCAGGGTGGG GTGCGTTCCT GTAGTCCCAG CTACTCGGCA GACTGAGGTA GGAGAATCAC TTGAACCCGG GATTCGGAGG TTGCATTGAG CTGATATCAT GCCACTGCAC TCCAGCCTGG 119400 GTGAGACCCT GTCTCAAAAA AAAAAAAAA AGAAAAAGAA AAAATTAGCT GGGCGTGGTG 119460 CTGTACGCCT GTAGTCCCAG CTATTCCGGA AGCTGAAGCG GGGGGATTGC TTGAGCCCAG 119520 GAATTTAAGG CTGCAGTGAG CTATGATTGT GCCACTCCGC TCCAGCCTGA GTGAGAAAGC AAGACTCTGT CTCTTAAAAA AAAAAAAGTG ATATATTTTT AAAATAGAGT ATATTACTTA 119640 TATAGACATC AAAAACAATA TTTTCAAGGG ATATTTAAAA ACATAGGATC ATGACAAAAT 119700 GTAAAGTTCA AAGGTAAGAT GGAGAATGGA GAACTGTGGG GAACTGTATA ATCTGACAAT 119760 TCGTAGTTGC ATACATCTTT CTGTGTGCTG GTGCTGTTAG AACACTTTGT ACGCATCACC 119820 TCATTTAAGT TCAGCATCCC TAGGTGGCAG ATACTATTAT TATATTCCAG TTTTGTTTCA 119880 CGTTGTATAT GCGGTGTGAG CCCCAATATG GGATGTGTGT GTGCACATGT GCAGTATTTG 119940 GAAAGTTCTA TGAAATATTA TTAGTGGTTA TCTCTGGGAG GTGATTTTTA TTCCTTTTCC AGTATGTTCT CAAGCATTTG CTGCAAGCAG TCTTTTGCGG GGCCAGGGTT GAGAGGCAGC 120060 AGCAGTTTCC CTAAATTACA GATAGAGGGA GGTAGGTGGT TATGCTTGGC CAGATCTCTG 120120 TCTAGGGGTA GAGGAGTGCC TGTGTGTGGG TAGGGACACC GGCGGGGGGC TTTGCCAAAC 120180 ACAGTGGAAC TGTCACGCTG GTCTCTCTTC TCAACTCTTT CACTCACCTG AGAAAAGGGT GTCTATGGAC CATGCACACT TCTGTGGGGA ATTTTACAAG ATGTGAATCA TCAGTGATGA AGATGCTTTC ATTTAAAAAG AATTGGAGTA CCTGAGATTA GAGATAACTT CTACCCTTTT 120360 AAAATATTIT TAAAAATTIC TTIGCACTGA TTITTITTCT TCGTTTTTAT GAGTTGTTTT 120420 CATTTGGGTG GGATAACTCA ATCTACAGGA GAATATTAAG ACTTTTTAAA TTTTAAAAAA TATACTTTCA AATACTTAAT ACATTTTGTG TTAAATGACA GCCAGCAGAT ATTGACTGAA 120540 120600 TTGGGCTAGA TGCTTCAGGG ATCTCCCTTC CATTTAAGAC TCTCCGAGAG GCCATTCCTG ACTGCAGGTC ACTGTATTAT TTTTAATTTT AAAATTTTTA CTTACTTATT TTATTTAATT 120660 TTATTTTTTG AGACAGAGTC TCACTCTGTC GCCCAGGTTG GAGTGCAGTG GCACAATCTC 120720 AGCTCACTGC AACCTCCACC TCCCGGGCTC AAGCGATTCT CCTGCCTCAG CCTCCTGACT 120780 AGCTGGGGTT ACAGGTGCAG GCCACCACAC CCCGTTAATT TTTGTATATT TAGTGGAGTC 120840 AGGGATTCGC CATGTTGGCC AGGCTAGTCT CAAACTCCTG ACCTCAAGCG ATCCTTCCAC 120900 CTCAGCCTCC CAAAATGCTG GGATTACAGG CCTGAGCCAC CCCACTCGGC CTACTTTATT 120960 121020 AATCCACTTG CAGAAACAGG ATATACACAA AAACGTTTCA AGGCTGTAAG TGCCACTGCA TGGCACCAAT GGTAAACGTT TTACAAATTT GAGTCAGGAA CAATCATTAG TGTCACTAGC 121080 AACAAAAATC AAAATTAAAT GAAATAAAAA ATTTCTTTCC CCAAATGGCA AAGGAGAAAG 121140 AAAGGTAATA CTAACACGCA GTCAGGGTGT AGTGAGAGGG CCGCTCTCAC ACAGGACTGG 121200 TAAGTACAGA GCCATGGAGT AAGCAGGTCT TGAGCTGACA CTGGAGAGGA TCCTTTTTT

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TTTTTATTTT TATTTTTTA GAGTCAGGGT CTTGCTTTTT TACCCAGGCT GGAGTACAGT 121320 GGTGCCATCA TAGCTCACTG CAGCTTCAAA CTCCTGGGCT CAAGAGATCC TCCTGCCTCA 121380 GCATCCCCAG TAGCAGGGAC CACAAGTGAG AGGATCCTTT AGTGTTGTCA AGGAGAAGGA 121440 ACAGAGGTGT GGATGGGTGG GCACAGACAC AGGAGCACAG CTGAAGCAGA GGATTACAAA 121500 GGGTGGAGCC TGATGTAAAG AAACCTAATA GGTGACAGAG CATGGAGGCT CTTGAATACC 121560 AGGCTGGAAA CTGCATTAGG AACGGTGCTC ATAATTGCAG AAAATTTTAC ATGGCCTAGA 121620 TAGTCATCAA AGGATGATGT ACAAACAACT ATGGCATATT TATACAATGT GCCGACAGGA 121680 TGCACTGAAC ATTTTGAACA ACAAAGAGAC TTGATAATGG CGAGGTTTTG AGGAGGTGAA 121740 TCAGGATGCA AAAAAAGCAA ACAACTAATA AAGTTGATTG ATGACAAACA CTATCAAAAG 121800 GCAGCCAGGA GAAAAGCTAC TGGTTACCTC CAGGGAGCTG GTGAGGGAGG CTGGGTGGGA 121860 GGATCTACCC TTCTGAATTC TGAGGGCACC TCCAGTGTGG CCCTCAGAAA GCAGGAGCTT 121920 CCAGGCTAGA ATCAGATCCC GACATCCCTG TTAATTCCAC GGATTCCACA CCGAGTCAGA 121980 TTTATGATTT ACTATAGGGT TTTAAAAACC AAATTGCAGG GATGCTAGCC TATCACAGCT 122040 TATCTCAGAC ATTGTCCACT AAGGTATACA GAGTGCTGCC TGTTCCTTTG GTACCCTAAT 122100 CAGGAAACCC CATCAGATCT GCTCCTTCCT ATGGGGTAGT GAGTAACACG AAGGCTTACC 122160 ATCTCACACA GATAACTGGT CATAGGTCCA GCAGAAGTTT AAAACAGAAA ATGAGGAAAG 122220 CCATGTGATT AACTGCTGCC AGACTGTTTG TGTTACAAAC AGCAGTTCCT TAGGCATTGC 122280 CTGGGACATG CAATAATTTC TGTTACACAA TCTGTGGTAG TTAAAATGCT GCACGATGAA 122340 AGCTATCTGA TTTGGATTCA TTATTAGGTG AGCCATCTCG TCTGCAATTT GGTTCCACCA 122400 TTTTCATTTA ACAAATGTAA AAAAGTTTAT TAAGCTCTTA CAAAGTTATG CTGGGCAAAT 122460 ATGCAAAAGT CCAGATCACC TACCGCAGGA ACTAATCTAG CCTCCTCTC GGGCACCCTG 122520 TTGTTTGGGG CTGGGCAGTT CTTTCCTGTG TAGAACCATC TAGGGCTGAA TAGGTCATTC 122580 TGACACCTGG GCACCTCTGC CTGCTCGTAA ATGGGACAAT CAGAAAGGGC CCTTATGTTT CCAAACTTTC TITAAAGTAG CTGTTCTGAA AACATGGTCC AGGGACCCCT GATTGTCCCT GAGACCTTTG AGGGGATCTT CAAGGTTAAA ATTAATGTCA TAATAATACT AATATGTTAT. .122760 CTGTCTTTTT TCACTCTCAC TTTCTCACAC GTGAACAGTG GCATTTTCCA GGTGACAGAG TGTGTGATAA TGAACCTAAC TGAATGCAGA AGCAAACATG AGAACCTAGT TTTTTCAATC 122880 AAACCAGACG TGAAAGAGAT TTGCAAAAAT GAAAAAACAA TGCTATCCTC CTCACAATAT 122940 TTTTGTTTTA GAAAATAAAG TTATTTTTCC TAGAAATGTT TTTGAGTTTA TCAGTCATAG 123000 GTTTATTATT ATAATTAAAA AATGAAATAT ACATACACAG ACATATTTTT TAAAGTTCTC 123060 AGTTTTAATC TCTTTTTTT TTTTTTTTTT TTTGAGACGG AGTCTCGCTC TGTCGCCCAG 123120 GTTGGAGTGC AGTGGTGCGA TCTCAGCTCA CTGCAAGCTC CGCCTCCCTG GTTCGCGCCA 123180 TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC ACCCGCCACC GCGCCCGGCT 123240 AATTTTTTGT ATTTTTAGTA GAGACGGTGT TTCACCATGT TAGCCAGGAT GGTCTCGATC 123300 TCCTGACCTC GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAAC CACCACGCCC GGTCTCAGTT TTAATTTCTA ATACAGTAAG TATTGATCAG TGTGCCCCAC 123420 ATTAGTAAAA GCTCTTGGGG TCCTCAGTAC TTCTTTTTAA GAGTTGTCAA GGAGTCCTGT 123480 GACCAAAAAT AGGAGAGCCA CTGCCCTAGA AGGACAGCCC CAGCCCGGGT CAGGAACAAC 123540 TGGGACAGAA CCTACTGCTC CTAGTGGATT GTAATATGAT AGGATTTAAC CTTCAAGGTT 123600 TCAACTCTTG GCAAGAGTCC ATGAGGGGCC ATGGTTTGTC CTGAGCATTG CTTACTGTTA 123660 ACAGGAGCAA GTTCCTTAGG CTGGTGAGCC AAGCCAGCCT GACGCTGGCC ATGGACATCT 123720 TAGTGGGCTG CTTGTTCTAG TGTGGGTTTT CATTTTATGG GAAATGTCAT CTGCTCTAAG 123780 GCTCTTCTCA TTTGGGGAAA TCACAAGTTC TCAGAATGTT TGTCTCTCTT GGTTGGGGCC TCTATAATTA AATTATAAAA CAGAGGTAAT GGTTAAGTAA TGCAAGATTT GACAGAAACC 123900

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ACAGAGGATT TAGGGTTTAA TTTGAGTGAG GCAAAGGGGG GATGAAGATG AGCGGTCCTG GAGACAAGAA AAAGATTGGA TGAAGCTGGG CACGGTGGCT CACGCCTGTA ATCCCAGTAC TTTGGGAGGC CAAGGTGGGC AGATCACTTG AGGCCAGGAG TTTGAGACCA GCCTGGCTAA 124080 CATAATGCAA CCCCGTCTCT ACTAAAAATA CAAAAATTAG CCAGGCGTGT TGGTGTGTGC 124140 CTGTAGTCAC AGCTACTTGG GAGGCTGAGG CATGAGAATC GCTTGAATCC GGGAGGCAGA GGTTGCAGTG AGCAGAGATC ATGCCACTGC ACTCCAGCCT AGGCAACAGG GTGAGACTCT 124260 GTCTTCTTTT TTTTTGAGAC GGAGTCTGTC GCCCAGGCTG GAGTGCAGTG GCATGATCTC 124320 TGCTCACTGC AAGCTCCGCC TCCCAGCTTC AAGCGAGTCT CCTGCCTCAG CCTCCCGAGT 124380 AGCTGGGATT ACAGGCATGT GCCACCACAC CCAGCTAATT TTTATATTTT TAGTAGAGAC 124440 GGGGTTTCAC CATGTTGGTC AGGCTGGTCT CAAACTCCTG ACCTCGTGAT CTGCCCGCCG 124500 CGGCCTCCCA AAGTGCTGGG ATTACAGGTG TGAGCCACCA TACCTGGCTG AGACTCTGTC 124560 TTTAAAAAAA AAAGAGAGAG AGGGAGAGAA AGATTGGATG AAACAACAGA GTGGGGAGGA 124620 CCTGTGAGCT TGGTAGCTTG GTGAAGGCAG GGCTTTATTG GGGGCCTTAG AGGGGATCCA 124680 ATAAAGGTTC CCAGTCATGG TAGTGACCTA AAGAAAATAG CATTTTAACA TCTTTCATTT 124740 CATAATAGAC AGTCACAGTT TACAAGACCC TTTCCATACA TTCCTTATGA CATCCATACT 124800 ACAGCCCAGA GGCAAGTTGT GCACTCTCTC CTCTCACAAA TACAAAAACT CAGCCTCTAG AGGCCAGCGA CCTGCTCAGG GTGATGTGCA ATTCAGGGAT GACAGAGTCG AGGCTCCCAG CCCAGTGGTT ATCCCTCACA GGCACGTTGC CTGTCAGTGT GCAGTATAAA ACTTTGTACA AGAAATCAAG TTGCATTAGT CAGTCGGATT CCCCAAATGA TCACATTGTA GATGGTGTAT 125040 GCTGTGGGCA GAGCAAGGGC TGCTGTTTCT TGGGCAAAAC AATCAGTCCC CCTCCCCCC 125100 AAAATAAATG AATGCCAATG GTGTGACTTT ATTTTATTTA TTTTATTTTT ATTATTATTT 125160 GTGAGACAGA GTCTCACTCT TTCACCCAGG CTGGAGTGCA ATGGCATGGT CTCGGCTCAC 125220 TGCAACCTCT GCCTCCTGGG TTCAAGCGAT TCTCCCGCCT CACCCTCCCG AGTAGCTGGG 125280 ACTACAAGTG CATGCCACTG CACCGGCTA ATTTTTGTAT TTTTTTTAAG TAGAGACAGG 125340 GTTTCACTAT GTTGGTCAGG CTGGTCTTGA ACTCCTGACC TCATGATCCA CCTGCCTCAG 125400 CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACCGCGC CCAGCAATGT GACTTTATAA TTACAGAATG TAGGACTCAG CTCCCACTAT TGTTATGACT CAATATTCTC TTAGATAATG 125520 TTTGGGGCAC TAGCTTACAG GCAGCATTGC CCGGTGGTTA ATGTTGTAGC TTTGCAGGCA GACTGACCAT ATTAAAATTC GATCACACCA TTTGCTAAGC CTGTGGACTC GGGCACGCTT CTTTCTCTGC GTTAGTTTCC TCCTCTGTAA AACACGGATG ATGCTATAAA CACACCCAAG TCCTAGAATT GTTATATGAG TTAGAAAAGA TAGGCAAATA CAACTCTCAC AAGACAGCCT 125760 GGCCTCCAGT AAGTGCCACT GAGTGTTTGC TCTTATTGTA CAGTGGCTCC AAGTGCTTCT 125820 GTCTTGGATT ATTTCTGACC AGGTGGCTAT GTCTCCTAGT AACTTACCAA TCCTGTTGAG 125880 TCTTAATAAG CACGTCTTTG ATGCCTACAG TGCGACTGAA TTTCCAGGCC TCATTACTGG 125940 AGACACAATC ATCCTATATG CTTTTTTCCA TTTGTTTTTA ATAAAGTGGT ACATGTGTAT 126000 GGCACCAGAT CAAACAGTAC AGAACAAGTT ACAATGGAAG AGAATGGCCT CCCAGCTTTC 126060 CTGAAATCCT CAACTCAGAG ACAACTTTTT TTTTTCTGAC GGTTTCTTTA TACAGCCCTT 126120 TTTGTGGTTA CCTTCCTAAC TCTAGAAAAA CTATTCTTAC CTCTGTTTAT TTACTTAGAA 126180 ACATTAGACG TTACCTTTCA ACTCCTCAGT ATGAAGCTTT AGTTTTCAGC ACCCCAGGCC 126240 ACCACCCTCT TTCCAGGACT TACTACTTAT ACTGGTGGTA GGTGGAATTT TAAAATTCAT 126300 CAGCATTCTT TTGTGATTCT CTGTGTGTTC CAGTTTTACA GCAACCCGTA CTTGTTGCAT 126360 GAGTACAGTA GAACTGGGAG GCTCATAACT TAGCCTGCAG GACTTTTCAC TTAAAGCCTG 126420 GCCCTCAGGG TGATGTCACC CACCTCATTG TGCCTGGCTC AGGAGTTTAG TCCCTCAGTT 126480 GCCTGGTTGT ATAGTTTGGA TGTTCAGCAC CTCCAAATCT CACATTGAAA TGTGATCTCC 126540

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AATGTTGGAT GTGGGGCCTG GTGGGAGGTG TCTGGGTCAT CAGGTGGGTC CCTCTTGAAT GGCTTGGTGC CTTCCCCATC GTAACGAGTG AGTTCTTGCT CTGGCAGTTC ACACAAGAGC 126660 TGGCTTTTTA AAGGAGCCTG GCACCTTCCG CTCTTTCTCT TGCTCTTCCT CTTCCCTTCC 126720 TTTGTCACTA AAAGCTTCCT GAGCCCTCAC CAGAAGCGGT GCAGATGCTG GTGCCATGCT 126780 TGGACCTCCT GTAGAACTGT GAGCCAAATA AACTCTTTCC TATAAATTAC CCAGTTTCAG 126840 GTATTCCTTT ATACAATGCA AAACAGACTC ACACATCTGG TAAACCCCAG TTGTTTGCTT 126900 CTAGGTAAGA CGGGAGGAGT GGGGAGCTGG TGAGGGTTTC CACTGCATTG TCTATTTTCA 126960 GGCAAGGTGT CTCCACTGAG TAGGCTTCAC ATTCAGAGCT CTGGGTAAGG TGGGCAGGAA 127020 GAGGGTTGCA GGCTGCCCAA AGGAGGGAGA GAAGAAGGCT GAATCCTTCA GTGACAACCT GTGAACCAGA GTCTTAGCTC TCTTTGAATA TTTTGTTCAG TATCTTTGGG TTTTGTTTTA 127140 TTTTGCCTAG GGGTAAATGC TGACTGCCTG TTCTCTGGAC AGGAATGGAG AAGATGGTGC 127200 TAGCAGGGTT GCTGTTCATA TGTAGACATT CATGCAGTCA CTCTCTTTC AGCACACTTC 127260 TTACTTCTGC CCTGGGTTCA GTTGCTGACT CTGAGCCCAG AAACCTTCTA GGGTTCTGTT 127320 AGGTAGATTG GCTTCCACCG TCTTTGCGAC AACCACAGAA AATTCTAGAC TGTTTTCTCT 127380 TCGGGCTTCA TTAGTCAACT TGCTTCAGTC TGTCTTGCAT CTTCTAAATA TTTATAGATC 127440 TCTCTCTTTT GTTGGAGTGG CAGAAAATGC TAGTTGACCA CCCAATATTC AAATTATCCT 127500 GCCTCCTTAA TAACAGAATA TCATTGGATG TGGTGGGTAA ATAATATACC CTAACTTTCC 127560 TTGCAGAGAG GGGTGGCCAA TGAGATGGAA ATGAAAGTCA TTGGGAAAGA CTCCCAAGAC 127620 ATCTCTTTAA ACAAGACAGA CTGAAGCAAG TTGACTAATG AAGCCCAAAG CTAGCAGTTG 127680 TTTTTGTTTA TCTTTGCCTC TTTCTTCTTC TTCCTGTGGG GACAAAGGGC AGTGATATCT 127740 GGAGCTGCAG CAGCCATTTT GGCATAATGT TGGAAAAGCC AAGAGACTCT CAGAGACCGC 127800 AGCTCCAGCA GTTTTTATT TTTTCCAAAT ATTTGCTCCA CTGCAGGAGG ATGAGATATT 127860 CGTGTTTGTT GCCTTGTGAC TGTAGGAGGA CTGCACTTCC CTGCCTTGTT GTCAAGTTTC CCCATGTGGT CTGCTTTGGC CAGTAAAACA TGAGTGGGAG AAGCTTGGTG AACCATTGCA TGTCTACCAG CTTTTTTGCT CTCTTCCCTT TGGCATTAGA AAGGCATGTC CAGGATGGAG 128040 TTGTTCCTTC AGCCTAGATT GGGTTATGAG AAGCTAGCTG GGGGAGTCCA GTAACATATA 128100 AAGCGAGTTA GAAATAAAAC TTTGTTGTTG TAAGCTATAT ATATATAT ATATATATAT 128160 ATATATATAT ATATATAT AATATGTATG TAATATATAA ATACATATTA TACTTTAAGT 128220 TCTAGGGTAC ATTTGCACAA TGTGCAGGTT TATTACATAG GTATACATGT GCCATGTTGG TTTGCTGCAC CCATCAACTG CTCATTTACA TTAGGTATTT CTCCTAATGC TATCCCTCCC 128340 CAGCCCCCA CCCCTCAACA AGCCCTAGTG TGTGATGTTC CCCTTCCTGT GTCCAAGTGT TCTCATTGTT CAATTCCCAC CTATGAGTGA GAACATGTGG TGTTTGGTTT TCTGTCCTTG 128460 TGATAGTTTG CTGAGAATAA TGGTTTCCAG CTTCATTCGT GTCCCTGCAA AGGACATGAA CTCATCCTTT TTTATGGCTG CATGGTATTC CATGGTGTAT ATGTGCCACA TTTTCTTAAT 128580 CTAGTCTATC ATTGATGGAC ATTTGGGTTG GTTCCAAGTA TTTGCTATTG TGAATAGTGC 128640 CGCAATAAAC ATATGTGTGC ATGTGTCTTT ATAGTAGCAT GATTTATAAT TCTTTGGATA 128700 TATACCCAGT AATGGGATCA CTGGGTTAAG TGGTATTTCA AGTTCTAGAT CCTTGAGGAG 128760 TCGCCACACT GTCTTCCACA GTGGTTGAAC TAATTTACAC TCCCACCATC AGTGTAAAAG 128820 CATTCCTATT CCTATGTCTC CACATCCTCT CCAGAATCTG TTGTTTCCTG ACTTTTTAAT 128880 GATTGCCATT CTAATTGGCC TGAGATGGTA CCTCATTATG GTTTTGATTT GCATTTCTCT 128940 GATGACCAGT GATGATGAGC ATTTTTTCAT GTGTCTGTTG GCTGCATAAA TGTCTTCTTT 129000 TGAGTAGTGT CTGTTCATAT TGTTTGCCCA TTTTTTGATG GGGTTGTTTG TTTTTTTCT 129060 TGTAAATTTG TTTCAGTTCT TTGTAGATTC TGGATATTAG CCCTTTGTCA GATGGGTAGG TTGCAAAAAT TATCTCCCAT TCTGTAGGTT GCCTGTTCAC TCTGATGATA GTTTCTTTTG 129180

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CTGTGCAGAA GCTCTTTAGT TTAATTAGAT CCCATTTATC TATTTTGGCT TTTGTTGCCA 129240 TTGCTTTTGG TGTTTTAGAC ATGAAGTCCT TGCCCATACC TATGTCCTGA ATGGTATCGC 129300 CTAGGTTTTC TTCTAGGGTT TTTATGGTTT TTAGGTCTAA CATTTAAGTC TTTAATCCAT 129360 CTTGAATTAA TTTTTGTATA AGGTGTAAGG ATGGTTTCCA GTTTCAGCTT TCTACATATG 129420 GCTGGCCAGT TTTCCCAGCA CCATTTATTA AATAGGGAAT CGTTTCCCCA TTTCTTGAGC 129480 TACAGATATT TTGAGTTTGG TTACCACAGT ATTATCTAGT GGAAGTTGAC TTATACAGTA 129540 TGTAATAGGA TAAATATAGG TGTGTAACAG AATATTAAGT GTTCGTGTTT CAAAGCTGAG 129600 GGGAAAATGT TAAAAGTGTT CACACACTCT AAAAAGAGAT TAGCTAAAAC TGCTTCATTA 129660 ACCACACTTT GGGGAAACCA GTTCTGAGAT TCTTCTCCAT TACTCTGACA GGTTGGACCC 129720 TCTGGGGAGC AGATCTCAAG ATCAAGTTAT GAGTGCAAGA GGTGTGTTGG GAAGCGATGG 129780 TTGTAAAAGA ATCCTGCAGT AGCACCAGGC ACAAGTCTGT CCAGGGAGAG GAGGACTTCT 129840 ACTCTCTACC AGCATCTCTC CTAAGTCCCC TTAGGGGACG GGGGCAAGGA AGTGCTGGGA 129900 AGGGCAGGGC ATGGTTCCTG GCTAGGACTC CACCCCCTG GGGCCTGTAC CCACGGACCT 129960 AGGTGAAGAC AGGCACTCCT GCCTTCTCGC CCAACGGTTG CGTTTCCCAA GATCATCCTG 130020 GCCTGCCACG CCCCATCTA CCTATTAAAC TCCCCCACCT TCCCCAAACC CTAGCAGGCA 130080 GACACACATC GGTGGAAGAA GACAGGAGCG GCTGGACATT GAAAGGACGT CGAGAGGAGC 130140 ACACCTGCAC ACCATCGACC AGCGGAACGA GGCAGAGTGT GGCTGGAGCA GTCGGAGGGA 130200 130260 AGCCTGGGCC GCTGACTCCA GGGGAAAACC ATCTCCTTTC TGGCTCCCCC CTCTGCTGGG AGATACTTTC ACTGAATAAA ACCTTGCACT CATTCTCCAA GCCCACCTGT GATCCGATTC 130320 TTCCTGTACA CCAAGGCAAG AACCTGGGAT ACAGAAAGCC CTCTGTCCTT GTGATAAGGT 130380 AGAGGGTCTA ACTGAGCTGG TTAACACAAG CTGCCTATAG ACAGCGAAAC TGAAAGAGCA 130440 CACAATAGCA CACACTCATT GGGGCTTCAG GAGCTGTAAA TATCCACCCC TAGACGCTGC 130500 CATGGGGCGG GAGCCCCACA GCCTGCCCGT CTAGAGGTTT GAGCAGCGGG ACACTGAAGA 130560 AGAGAGCCAC ACCCTCATCG CACGTCCTGC GAGGGAGCA AGGGAACTTT TCCGGTTTCA 130620 CTTCTGCTTG GCTTGAGCTG GCACTGAAGC ACCCTTTTCC CTCCTCACTG AGGGAGCAGA 130680 GGGGAAAAGC GGTAGAACTA ACAGGCTAAC AATGCTCCTC CGAAAATATA TCGTATTTTT GGATCCCTAG AGATAGGTGA TCACGGCAGC CGCGGAGTGC ATTTGGGTCT CCTTTCAAGA 130800 AAGAACTTGC TGCTCAGCGT TGAAGAATGC AGTTGGCCAA CAGCCTCCAG CTGCTCTGTC 130860 TTCAGCATCT GCCATGGCAT CTGAGCTGAG GTCATGTTCT TCCTGGGAGG TCCCCAGCAG 130920 130980 AAGGATCACG TGGAAGCTCC ACAAGCTCCA CAGATGTTCC AGGAGAGGAA TAGGCAGCAT TTGGAAGACA TATCCTGCCA TAACAGAGGG CATTTGCTAG TAGAGACAAC AAACAGCAAC 131040 AGCCAAGTAA ACAAACACAC AAGCACAAAG CACTTTCTCC CATTTCCCCT CATTGATCCT 131100 GTCCGGGTAG AAGCTGGGGA GGAAGTAGAA TAGGGTGAGG CGGGGTGGGG CTGGGGGGCC 131160 TACACCTTCT TCCTTCCCCC GCAGGTCCTG TCCCTGGGCC AGGCTTGAAC TAGGGGAATG GGAAAAGCTG TGAAGTGAAT GAGAATTAGG AGTTTTTATT TAGACTGGAC TTGAATTTTT 131280 TTTTTTTTTTTTTTTTT GAGACAGAGC CTCGCTCTGT CACCCAGGCT GGAGTCCCGT 131340 GGCGCCATCT TGGCTCACTA CAGCCTCTGC CTCCCGGGTT CAAGCGATCC TCCCACCACA 131400 GTCTCCTGAG TAGCCGGGAT TACAGGTGCC TGCCACCATG CCCAGCTATT TTTTTTTTT 131460 TTTGTATTTT TAGTAGAGAC AGGGCGTCAC CGTGTTGGCC AGGCTGGTCT CGAACTCCTG GCCTCAAGTG ATCTGTCCGC CTCGGCCTCC CCAAGTGCTA GGATTATAGG AGTGAGCCAC CACGCCTGGC CTGGACTTGA ATTTTTAATT CCTAAAAATG AACTACCAGT TAAAATTTAA 131640 AAATGACCAA AAAAGCTATG GGATATGCTG ATGTTTTGCT TTGGGGATAA GGAAAAGATA TCTGGTTGAG CGGCATTGAA AACAGTGTAG GGAGAGAAAA ACTCATTCCT GGCTCACCCT 131760 TTTGAGTCCC ACTATCTCAA TAATCTGATG TTATATGACA CACACACAC CACACGGAGG 131820

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Inventors: Anna Helgadottir

AATCCTGGAA GACTCCATAT CAAGGTGGTG ATGAAGGTGA CCAGTGGGTG ATAGGATTAT AGGTGTGTGT TTATTTATTT ATTTTAATTA CCTTTTTTTA GAGACAGGGT CTCTGTCATC 131940 CAGGCTGCAG TGCAGTGGTG TGATCATGGC TCACTGCAGT CTTGCACTCC AGGGCTCAAT 132000 CCTCCTGCCT CAGTCTCCTG AGTAGCTGGA GCTGCAGTCA TGCACCAACG TGCCCAACTA ATTTACTITA TTTTATTTTT TATTTTTTGT TAAGATGGAA TCTCACTTTA TTGCCTAGGC 132120 TGGTCTTAAA CTCCTGGTTT CAAGCATTCC TCCTACCTCA GCCTCTCAAA GTGCTGGAAT 132180 TACTGCACTT GGCCCTATTA TATTTTTAAA AAATTTCAAT AGTTTTAGGG GTAAAAGTGG 132240 CTTTGGTTAC ATAGATGAAT TGTATAGTGA TGAAGTCTGG ATTTTTAGTG TACCCATCAC 132300 CCAAATAGTG TACATTGTAC CCAATGAGTA GTTTTTCATT CCTCACCCCC ACACTGTCCC CACTTCTGAG TCTCCTGATG TCCATTATAG CACCCTGCTT TTGCGCACTT AGAGCTTACC 132420 TCCCACTTAG AAGTGAGAAC ATGTGGTAGT TGGTTTTCCC TTCCTGAGTT ACTTCACTTA 132480 GGTCAGTGGC CTCCAATTTC ATCTGAGTTG CTGCACATAA CATGATTTCA TTCTTTTTTT 132540 CACACACAC CACATTTATC CACTCATCCA TTGATGGGCA CTTAGGTTGC TTCTATATCT 132660 TTGCAATTGT GAATTGTGCT CCAATAAACA TACATGTGCA AGTGCTGTTT TTTCTCCCTT 132720 TTATCCTTCT TTTCTTCCCT ATGCTTCCAT AGGTACTGAG AAAGAGTCTT TTTTATATAA 132780 TTATTTCTTT TCCTTTGGGA AGATACCCAG TAGTGGGATG GCTTGATCCA ATGGTAGATC 132840 TGTTTTAGT TCTTTGAGAA ATCTCCATAT TATCTCCATA TTGTTTTCCA TAGAGATTGT 132900 ACTAATTTAC ATTCCCACCA ACAATGTATG TGTTCCATTT TCACTGCATC GGCACCAACA 132960 ACGGTTGTTT TTTGACTTTT TAATAATGGC CATTCTGGCT GGGGTAAGGT GGTATCTCAC 133020 TGTGGTTTTA ACTTGTATTT CCCTGATAAT TAGTGATGTT GAGCATTTAA GAAATATAT 133080 TGTTGGCCAT TTGTATATCT TCTTTTAAGA AATATCTCTT GAAGTTGTTT GCCCACTTTT 133140 TAATGTGATT ATTTGTTTTT TTTTCTTGCT GATTTGTTTG AGTTCCTTGT AGCTTCTGAA 133200 TATTAGTCCT TTGTCAGAGG TATAGTTTGC AAATACTTTC TCCCATTCTG TAGGTTGTCT 133260 CTITACTCTG TTGGTTATTT CTTTTGCTAT GCAGAAGCTT TTTAGAATAA TTAGGTCCCA TTTACTTATT TCTGTTATTT TGTTGCATTT GTTTTTGGGG TGTTAGTCAC AAATTCTTTG 133380 CCTAGACCAA TGTCCAGAAG AGTTTTTCCT AGGTTTTCTT CTAGAATTTT TATGGTTTCA 133440 GGTCTTAGAT TTATGTCTTT AATCCATCTT GAATTAATTT TTGTATATGG TGAGAGATAG 133500 GAACCCGGTT TCATTCTTTT ACACTACATG TGGCTATCCA ATTTTCCCAG CACTGTTTAT 133560 TGAATAGGAT TTCCTTTCCC CAGTGTATGT TTTTGTTTGT TTGGCTGAAG ATCAGTTGGT 133620 TGTAGGTATT TGGTTTTATT TCTGGGTTCT CTATGCTATT CTACTTTTAT ACCGGTTCCA 133680 TGCTGTTTTG ATTACAATAG CCTCGTAGTA TAATTTGAAG TTGGGTAATG TGATGCCTCC 133740 AGATTTGCTC TTTTTTTGCT TAGGATTGCT TTGGCTATTT.GGACCCCTCT TTGGTCTCAT 133800 ATAAATTITA GGATTGGTTT TTCTAATTCT GTGAAAAATG ACATTGGTAT TTTGATAAGG 133860 GTTGCACTGA ATCTGTGGAT TGCTTTGGGT AGTATAGTCA TTTTTACAAT ATTGATTCTT 133920 CTAATCCATA AGCATGGTAT GTTTCTCCAT TTGCTTGTGT CATCTATTAT TTCTTTCATT 133980 AGTGTTTTGT AATTCTCCTT GTAGGGGTCT TTCACCTCCT TGGTTAAGTA TATTCCTATG 134040 TATTTTATTT TTATTTTTG CAGCTATTGT AAATGGGATT GAGTTCTTGA TTTGATTTTG 134100 AGCTTGGCCA TCATTGGTGT ATAGCAGTGC TAGTGATTTG TGTACATTGA TTTTGTAACC 134160 TAACACTACT AAATTCACTT ATCAAATCTG GGAGATTTTT GAGGATTCCT TAGGATTTTC 134220 TAGGTATGAG ATCATATCAT TGGTAGAGGT AGTTTGAGTT TCTCTTTTCC AGTTTGGATG 134280 CCCTTTATTT CTTTCTCTTG CCTGATTGCT CTGACTAGGG CTTCTAGTAC TATGTTGAAT 134340 AGAAATGGTG AAAAGTGGGC ATCCTTGTCT CATTCTAATT TTTAGGGGGA AATGCTTTCA ACTITICCCC ATTCATTITG ATGTTGGCTG TGAGTTTGTC ATAGATGATT CTTACTATTT 134460

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TGAGATATAT TCATTTGATG CCTAGTTTGT TGAGGGATTT TATCATAAAA GGAGGCTGGA 134520 TTTTATTGAA TGCTTTTTCT GCATCTATTA AAATGATTAC GTTTTTCATT TTTAATTCTG 134580 TTTATGTCAT GAATCACATT TATTGACTTA TGTTTATTTG TTGCTTACAT CTACTTTCTA 134640 ATTITACTAT AATAAACATG TATAATTITG TTATCAGAAA AGTAAATGTA AAAGTGAGTT 134700 TTAATTTTAA AACTTGGGCC TAAGTCTTCC TGCCTCCCAA GCCCATTCCC TTCCTGATAT 134760 CTGGGGCTTC CCTCCTCAAG CCTGCTCTGC AGGATAAGGG GATACAGTCC ACATGCCTGC 134820 TGCTGGTTTG GCCCATGATA ACCTCCATGG GCAATGTCTG AGCCTCTGCT GTTGAGTTTT 134880 GCTTTACACA CTCCTGGCAA GGAAAGGATG GCCAACATGG CTTGGACATG GGTTGCTGAT 134940 135000 AATTGGTGAT GTCTCATGAC TGGTTCTGCC TGGAGGGCTT GCTGTAAGTC CCTGATAGGA GGAACATGGA CCTGCACAAG AGCAGAACTT ATCTGACACT GAAGAGGACA CTTCAAGAAC 135060 AGATTATCAA AGTCTAGCTC AGGGAGAAAT ATACTTTAGA GCAGAATGAG GAATGGCGAG 135120 GCAGCTGAGC TTAGACACAA GCAGAAGGAA ATCCATGGTG AGGGCACAGG CAAGGAAAGG 135180 GGCTGAGAGA GCATTAGTGG GGGCAGTCAG GGGCAGTGGT CAGGATGCTC GGATGCCAGC 135240 GTGAACAATC GCATCAAGAT TAAACACCAT GAGGATCGTT AGACTTCCTG TCATATGTCT 135300 CCAGGTGGTG CTCCAAATAT CCTAAACCAG ATGACAGCAC CCCTCCACCC TCTGCTGTAT AAGCACATCT GCTCTCCTAT AATCATTCCC ACATAGCAAT TTATCATTTT TATTGATTTT 135420 TCTTCATTTA ATACACGTAT AAGTGTGTCT TTTATTTTTA AAAATTTGCA TTCCTTTAAT 135480 135540 TGCTTTGGAG ATTGTGCATT TTTCTCTCTG TTGATTTACT CTGCCAATAA ACATGTAATC CTACCATAAG CATGTTTTAC TTGTGTAATC AACCAAAATA AAAAATTTAA AAAGGAATCA 135600 CTGACTATGA ATTAGACATG TGGATAGGCA CCAGGGTTGC AGACATGGCC CACGTTCTTG 135660 135720 CATTAACTTG CACTGTGGCT GGGGCATTGG ATGGGTACAT TAAAAGGATT AAAGTAATAT AAGGCAGTAT TTATTAAGTG TTGAGTGAGC ACTACAGAAC CCAAGTGCTG AGGGAGTTTC 135780 ATGCAGGAAG AGATCAAGAG TAACACAGAG AAGAAGAATA GATCAATTTA GCGCATTCAT 135840 TTAAAAATTC ACCTTTTGCA TAAGGGGATG TGTCTTTTGT GGGGAGGAGG GGAGTTCCGA 135900 135960 TTGGCAGTTT GTTCTCAGGG AGCTTGAAGA AGAGATCTTG GAGAGGAGAC GCAGAGAAAA CAAATGAAGA AAATGTCAAA ATGGAAGGGG TTGGCCCGGC TATGCATACC TTAGTTAGCT 136020 TAGGTAGAGT CTAAACTTTT ACAAGTGGTT TCAATAGGTG TGTTTGGTCT GGGTTCTTTG 136080 GGAGGTATCA TAGGAGAATG AAGGCAGGGA GGACGCTTCC AGCACCAAAA TTCAAAGGGA AATGTATTTT ACATGCATAG CATTGTTTTA CTCTCTTTCC ATTTGGAGCA TATCTTAAAA 136200 ATTCCATTTG GAGCATATCT TAAAAAACCC ATTTCTCTGA CAATGGTTCT AAAAGGGGGA AACATCCTTT GCAACAGAAT CATTCATTCT CTCATTCATC AACCACTGAT TGTGTACTAA 136320 GTGTCAGACC TGATCTCCAT CCTGCCTGGT ATGGCACTAG CTTCTGTCTT GAGACAAGCA TTGTGATAAA CCATGACCAA AAAAAGGGCA GTTTTATAAA CACAAGTCTG CCAGGCTTTC 136440 AGCAATTCTA AATTTCCTTT TGCAAGTCAG GCTGGAGTTA ATGGCTCTTT CCTGCAGCGG 136500 CGGAGATGAC AGGGCTCTCC CACAGTGCTG AGCAGGCAGT TTGAAAGCCC CACTTCCTGT 136560 CTCTGCATGG GCGAGTGTCC ACTGGAAGCC ACTGAGAGGA AGGAGGGAAA CCTCAGAAAC 136620 CGGCCCCTGC CTGGCTGCTT CACCCTAGAA AGCCCAGGCA GAGGAGGGAA AGGTGAAGTG 136680 CTGAAAAAGA ATAAAAAAGG GGGAACATGA AAAAGAGCAA GAGCAGGAAG GAGGCAGGGA 136740 CGGGAAAGGA GGGGAAGCAC GGAAACAGCC AATGTCAAGG AGAAGAAAAG ATGGCTGGTG 136800 GAAAGGAGCT TCCAGGAATT GGGACACAGC CCTGTCTTAT TGCAAAAGAT GGAAACCCTG 136860 AAGGAGAACA GGAAGGAAAA AGAAAACAAG TCCGTCTGAG CTGGCAGGGT CCACTTTCTC 136920 ATTCTACAGA TGAGGAAACA GAGGCACAGA GAGGAAGTGG CTTGCCCAAG GGGGCAGATT 136980 CTTGAAAGGA TCATCTGCAC TCTCTCCC TTAATGCATT CTTACCTCTT CTTTACTCGT 137040 GAGTCAGTCC TGAAGGACAA GCTGCCTGAA GTCCCACACA GATGGGCCTG GGGCAAGCAT 137100

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CAAACATCCT GGGGGCCCTG GGTGAGGTTT GCTTTTAAAT TCCAGGTCAG GGAAAGGAAG 137160 GTCTTTAAGT TGTCTGCTCT AAGCTTAGTA ATCCCCCTCA GAGTTATGGG TGCGGTGTCT 137220 GGGGTAGCCG TTGCGTCTCT GGGCAAATAC CCTGGAGAAT GCAGTGTTGG TTGTCTGAGC 137280 TGGGGACAGA GTGACAGCAT AGTTGCATGC AGAGCTGGAG GCTCCTGCAG CTGTACAGGT 137340 AAGGTGCTGA AATTCTCCAC CAACCCTTCC TCTTTGCCCC CAGCACCACG AAGATAACCC 137400 TCTTTGAATA TGTGGAAGTC TGTTCTCCAA ACTTTCTAAC ATTCTCATGT CAGTCTTAAT 137460 AGATTCAGCT CAGTTACTGC CTCCTCCAGG AAGTCCTCCT TGTCTGCAAA TCGGCTGCCC 137520 ACCATGCCGG CTCACTCATA GTTTTAACTC TGTATCTTTC TAATATGCCT TAGCCCACTC 137580 TGTCAGGATT CCAGTCAGCT TCCTTCTCCT AGACTAGGAG TTGCCTCAGG CCAGGAGGAC 137640 CAGCCTTGTT CATATCTGTA CCCTGCAAAC CTGTCAATGC CCAAACCTGC TCAGTGCTTT 137700 GGAGTATGGA ACCAGCCGTC AATGCAGGAA TGTTACACTC TAAGAGTTCC CAAAGGTAGA 137760 GAGATGAGGG ATTGGTGCTG GAAGTGGGAG GTTATTCTAA GGATGGGTAT GGCAGGAAAC ACAATTATAG TTCAGGGAGT GGAGTGTCCA GGAGTGGGAG GAGAGGAACT GGGAGAAAGA 137880 GCAGAGAGTG AAAGTGAGAG CGGGCACAAA GAAAGGGAAA AAGAGTCAGG GATCAACCAA 137940 AGTGCATGCT TCCTTTTCAG CCCTGCCAGG ATGTGCAGGG CGGCTGCTGT GGACGCGTCA AGGCTCAGCC TCAAACATGT CTTCTTCCTT GACTTTTGTC TATCATTCTA AAGCTAGGTC 138060 ATTTAAAAAG TTCTTTGTT TTCTTTCCAC CGATACTCTG ATTTCTGACA TTCGCCAAAA 138120 AGAGGTCAAG ACCCTGGCAT ACCGCCCTAC TAAGATTAAA ATAAATATTA TCCATTGAAA 138180 CTGTTATTTT TTCCTTAACT GTTATTTGTA GAGTTAAAGA TTCCCATGAT CGCGCTGGCT 138240 CTAACATCAT TTTTGGCTCT TTTGAGATCA AATTTGCAAT TTGATGCAAA AATAGCTGTG 138300 ACGCATATGT GTCTGTATGT GTGTGGTTAG GAGATTTTTT ATCATTACAT CTTCTTTTGC 138360 CCTGCCTTTC TGCCTTTCTG TCCTTTTAAT TTGCGGGCTT TTGGCAACCA CAGCACGGGT CTGGTTTCCT AGGAGTTTCT TTTGTAGGAT CAAACCGCTA GTTGGCTCTT GGCCCTGTGA 138480 TAGGGCCCTG GGCTAACTTA TTGGGAAAAT GTTGCTGTAA CCCCTGCCCA GAGGTGCCTG 138540 TGACATGGGC CGCCATCTTC TCCTCTTCCC TTGGCTTCAG CCCCACCTAG AAACCTGAAC AAACATTTTC CTTGACATTT CATAAAGTGT CAGTGGCTCC TCATTTAGCA AAATACATCC 138660 CAGGGAAGTT CAAAAGTGAA AAAAGGCCGT AACTTCTTCT TCTTCTCAGG GACCTACAGA AAATATGTGG CACCTCGGCA GCCTGGCCTG CAGCACTCCC CTCCCCATCG GTGAGTCCTG 138780 CTACAGTGGG TCCAGGTGTC TGGACGCCCG GCACGCACGG CTCTCTGCAG ACCTCTGGAC 138840 AGTACCATGG GAGCCGCACA GTCCCTGCCT GTTCTGTCCG GCAGTTCTTG TTTCCCAGCA 138900 CCCTGTCTCA GGTGAGAGGT TCCCTCTTCT GCTGGGCTTC TCCTCCCTGC TGTGAACCCC 138960 AAATATCTGA GGCAGGTCAA TTTAGGAACC TTATTTTGCC AAAGTTGAGG ATGTACCCAT 139020 GACACGGCCT CAGGAGGTCC TGAAGACAAG TGCCCGAGGT GATCGCGGCA CAGCTTGGTT 139080 TTATACATTT ATACAGACAT CAGTCAATAT ATGTAAGATA AACATTGGTT CGGTCCCGAA 139140 AGGCCGGACA ACTCCAAGTG GAGAGGGGGC TTCCAGTTCA CAGGTAGATA AGAGACAAAA 139200 TGTTGCATTC TTTTGAGTTT CTGATTAGCT TTTCCAAAGG AGGCAATCAG ATATGCATTT 139260 ATCTCAGTGA GCAGAGGGGT GACTTGGAAT GGAATGGAAG GCAGTTCTCA GTTTAAATTT TCCCTTTAGC TTAGTGATTT TGGGGTCCCA AGATTTATTT TCCATTCACT CTGCAGACAG 139380 GGGCTTCTGT GCATCCAGGG AGCCCCTCCT CACAGAAGGA AGCAGGCCAT TAATGAGACC 139440 CAATCCAGCT TCAACCACCT GGTAACAATT AGGACATCAC TTCTCTGAGC AAGAGCTCCT 139500 GCCTGTCCAT GAGTTATCAA GACATTCCAA TTGTTCCTCC ACATCTTTGA CATGAAGACT 139560 TGAGGGGGTC AGATTITCCA GGGGGCTTGA TGGCATGTTC TCTTCACTGT TCCCTGCCCT 139620 GGTCATCCAA GTGACCCTTG GCAGGGAAGA GGCCCCGAGT TGCAGAATCT CTGTTCTCAC 139680 AAGCCATTGC CAACCCGGAG AGTGGCTTTG CCACTATTCC TAGCATGTTG TTGGCTATTT

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CAGGAATGGG AGTATTTGAC TTTTCCCTTT GCAGTGATTG CTGCAAGGAG AGGAATTGAG AGACTCAAGT CCCTGAGATA AATATTTATC AACTATTACT GAAAGGGAGT ATGTCAAAGA AAAAATGTGG AGAAACTTCA GCTTGAACAC ATAGTTTAAA TCCAGCTTGG GTGTACTCCA 139920 139980 GTGGGCATGG ATGTATTACT GTTTTGCAGT GCATTCTTCT ATGATCAATA CACAGAAGCA 140040 AACAGGCCAC GTGGGTAAAC AGTAATTTTC ATTTACCAGG GTGAATATGG AAGTCCTCTT GTTTCCATGT CATGATGAAG GAAAGCAAGG ACCATCTTTT GCCAAGGAAC AGTGGCTGTG 140100 GGGGAACTGA GGAGATGGAA GGACAAGGCA GTCAAAAGCT TTGGAACAAC TCTTTTTTTG 140160 AGATGGAGTT TTGCTCTTGT TGTCCAGGCT GGAGTGCAAT GGCACGACCT CGGCTCACCA 140220 140280 CAACCGCTGC CTCCCAGGTT CAAGTGATTC TCCTGCCTCA GCCTCCCGAG TAGCTGGGAT TGCAGGTATG CTCCACCATG CCTGGCTAAT TTTGTATTTT TAATAGAGAC GGGATTTCTC 140340 CACGTTGGTC AGCTGGTCTT GAACTCCCGA CCTCAGGTGA TCCACCTGCC TCGGCCTCCC AAAGTGCTGG GATTACAGGC ATGAGCCACC ATACCCGGCC CTTTTTTGGA ATAATTTAT 140460 AGGTTTTCAA ACTATTACAC TTACCTTTTT ATATAAGAGA CAGGACATAG TCACTGAACA 140520 ATCACTCCAG ATTTTAAGTA AGTCCAGGAT.GGGATGACAA TGGAACAACC ATGAAATGAA AGGAAGAATG TGTCACTGGT ATGTCCACAC GTCTCCAAAT CTCTCACCTC TGTCAGCTGC 140640 AAACAGAGCC TGAAATAAAT GTTTCCTCTG TGCACAGCCT CCACAACTTC CTCCCTCCAC 140700 140760 GTTTCTCACT CACTCCTCTC CAGCACTTCT CTCCGGGTTC TGCTTACAAA CTTGAAACCG GCTATGCAAA AATTATAACT GTGGAAATTA TGACAGTGAA AGAGATCAGA CCTAACCGAC 140820 TCCATCTTGC TTCTAACCTT TAAGCTGTCC TTGTTCATTT TTGGGCTGAA CTAACTTTGG 140880 GAAGGAATTC AGTTCATGGT AGAACTCTGA AACAAAATTG ATAATAGCCC TTTCCTGAAA 140940 AGACCCCTT CTTGCCTGGG GACAAGTCTG CCATTGTAGG ACTAACAAAT TAACTACAAG 141000 ATTAGAAATT AAGGTTTAGG GTTCATGCAG CCTCCAGTTC CAAGAGTCTA AACCTCCCCA 141060 AATTGCTCCT GGGGATAACA TCACTGTTGT AAAAGCTAAG ACCAGTGCTT GAGATATTTT 141120 GTAGACCCTG CTCTGGATGG ATCAGCTGAC ACCATCCAGA CTGGTAATTT GGCTCAACCA 141180 GCTCTGCCAT CCCACCCAGG AACAGAAAAA TACTCACTTC ATCACCCCAT GAGTCCATCT 141240 CTAACCTGAC CAATCAGCAC TCCCTACTTC CCAGGCCCCT ACTCGCCAAA TCTGCCTTTG 141300 GAGGCAGATA ACAACTTATC TTTAAAAACT CTGATCCCTG AATGCTCAGG AGACTGATTT 141360 GAGTAATAAT AAAACTCCGG CTCTGCATGA ATTACTCCTT TTCCATTGCA ATTCTCTTGT 141420 CTTGATAAAT TGGTTCTGTC TAGGCAGCCA GCAAGGCGAA CCCTTTGGGC GGTTACAAAC TCATCCTCTG TGGAAGAGTA GGAGTTCATG GAGAAATTGG TTGCAAATTA CAAAATTTTA 141540 TTGTAAGGTC AACTTGTCCC AGTGTCCGTC TGTGCAGCGA AGGGCCCCTG CATGGTTTAG 141600 TGATTGCAAG TTGAGCCTCT AGGGTCAGGT TGTCTAGGTT TCCATCCCAG CTCATTCACT 141660 TATTATCTGT GTGTTCTTGA GCAAGCTCCT TAATCAATTG AGGCTTTGTC CTTCTGTTTG 141720 TATAATGATG AGAATAATAA CCTCCACAAT AACCTCATCA TAAGGTTGTT GTGAAGATGG 141780 ATCAGATAAT ATATATGTAG AGTGCTTATA ACAGTGCCTG GCACATAAAA AATGCTCAAA 141840 AATCTTAAGT GTTATTAATA ATAAACTGAC ATATATTTCT TGAGCAGGGT GGTGGTAAAT 141900 GGGTGTTCTT TTTATTAAGC TTTAAAGTGT GCATAGATCA TATTAATTCT TTTTATGCAT 14 1960 ATGATATATT GCACATGCAT GAAAATACAT GCATTAAAAA TAAATGAGCA TTTATGAGAT 142020 TTAGTTTAGC AGTCACATGT CCCAGGATTA CAAGCCAGCA ATAATGGGTT GGAAAACATT 142080 CCAACCCATT CCAACCATTG GAAAACATTC CAACCCATCA CTGGACCCAT GTGCCAAACA 142140 ATGGAACCGC CCACAGGTTC TCATTCTTGG TTAAAAAAAT ATGATTATTA CGGGAATAAT 142200 ACTGATTCCC TAAGAATTAA TATCTGAGCA AGTTTCTTTT TTTTCCTGTC TTCTTGGAAG 142260 ATCAGCAGGT TCTAGATTCA ATGGAGTCAC TAGGATTGAG CCACCAGTAT ACGCCAGTCC TCTCCAGAAC GGCCACCTGG TGGTGGGCAC TAAGGCAGTC TCAGATGAGG ACTGATTGAC 142380

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TTTTGTGTGA ACTCAAACTG CCAAAGTCCC TCCCTCACCT TGCAAACTTC AAAGCACAAC 142440 TTTCAAAGCA CTACTTTCTT TCTTGGCTCT CAATTCTCTG CCTAGAAAAA GGGAGGTGTT 142500 GGCAAGGATG TTTGTTTAGT TCTGGGCATC AGTCAATGGT ACCCAGATCT TGCTGAACAG 142560 AAAAGACACA GATTTGTTTC TCTGAGGCAG TTGGTAGTGC TTATTGCTTA TTGCTCTCAG 142620 GGGCTTCTGC AGCAGTAGAA GGGCCCTCTT CCCCTGCCAT GCCACACTGA GAGGAGCATC 142680 CTTGGAGTCA TGGTTGGAAT CTGTTTTTGT TATGCTAGTC CTCTTCCGCA TGCTAGCTGT 142740 TGCATTGCAG GGATATGTGT ACCTGTTTAT CTTCTCCACT AGGCTCTAAG AAGCCAGGTT 142800 TCTTAAAGGA AGGAAGCTGA TCTTGTTTAT CTTGAAGTCC TCACAGTGAC ATTGCTCAGT 142860 CAATGTTGAG TGTATGAATG AATAAACGGG AACCATCACG AAAAAGCCGA AAATACAGTG 142920 GAAAGACTGG ATCATAAAAT CTTCTAAGCA AATTTTTTT CCTCTTACAC TCCATTTCCA 142980 AATAGATAAA GTATTTTTA AAATCCTATC AGAATATTCT AACACACTGA GTTGACAGAA 143040 TAGAGATTTT TAAATGCAGT GTCATTTGGC CAGCCATTTG TGAGAATTTA TAAATGTTTC AGTAGGTTGA AAACACTATA AAAGCAAGGA CTATGTTCAT ACCCAACAGC TGGCACTTAG TATGAATGCT AAATGAAACA TTCTCTTCTC TTTCAAGAGT CAGTCCAACC AGTGACCCTG 143220 ACAAGAAGGA AGGCACATTT AACTCAATTT AATGAACTCT TATAGAGCAT CTCCTTCTCC 143280 AAGTGCTTTG CTAAGGATGG GGTAAAAACA TGAATAAGTC TTGGATTCTG TCCTTCAGGA 143340 ATTTTCAGTC TTTGGAGGCA GATACATTTG CACCCAACTA TTATCCTAGG CAGAGTGTGA 143400 TAAGTACGAT AATAGCAGTA AAAGCTCTAA GTTAGGCAGG AGAGGAGGAG CTCGTTAAAG 143460 CTTATGGGGC CTGGGAGGCT TTCGGCGGAG TAAACTCCAG GGGGACAGCT AGGCATCTGG 143520 CTGCTGGAAT TGGGAGGAGG ATCATTTTAA GTGGCTACAA CTCTGGGTGC ACAGGACTAG 143580 AGGGTGAGGG CCAAGATGGG AAATTGTGGC AGCCATCTTC CACACTGGGC GCCCGCCGAC 143640 CCTTGCTTCC TGGTATTCAT ATTATTGTGT AGTGTCCCCC AACATTGTAT CAGGGTTGGC 143700 CTGTGTGACC AATTGCATAT GGTGGGAATG ATGGTGTGTG ACTTCTAAGA CCAGTTCATA 143760 GAAGATGTGG CCAATTCCCT TACTGTCTTT TTTTTTGGCA GGGGAGTGCC GAGTTTCACC 143820 CTTGTCGCCC AGGCTGGAGT GCAATGGTGC GATCTCTGCT CACTGCAACC TCTGCCTCCC 143880 AGGTTCAAGT GATTCTCCTG CCTCAGCCTC CCAACTAGCT GTGATTACAG GTATGCGCCA 143940 CCATGCCTGG CTAATTTTGT ATTTTTAGTA GAGACGGGGT GAGATCAATG AGGCAGTCAA 144000 TTGGCCAGCC TGGTTTTGAA CTCCTGACCT CAGGTGATCC ACCCGCCTCG GCCTCCCAAA 144060 GTGCTGGGAT TACAGGCATG CGCCAACCGC GCCTGGCCCT TACTGTCCTT TGGATCAGCT 144120 GCTCTGGGGC TAGGTCAATC CTTCATGTGA CTGCAGCCCC AGCCAACATC TGGACTGAAA 144180 CCCATGAGAC ACCCTGAGCC AAAAAAGCCC AGCTAAGACT TCCTGCATTT CTGACCCACA 144240 144300 GAAACTGAGA AAAGAAATGT TTTGTTGTTG CTTTAAGCCA CTGACTTCTG GGGTCATTTG TTTTGCAGAA ATAGATAGCA GATACAGAAA AGCAGGCTGG TGGAACAGTG TGGGAAACAC 144360 CTTGATTTTC AGGGAGTTGC ACTTTGTTTA TGTGCAATGG TGCACTGTTT TTAGAAAGAC 144420 ACAAAGATGA TAATACTGGT GATGGGCATA ATACGGGTTG TCAAGAGGAG TGACTGAGGC 144480 GGGGATAATT TAAGAGGCCA CAGCAGTAGT GTGGCAAGAG GTAATGAGGG AATTGAACTT 144540 GGTGGGAATG GGTGAGATCA ACGAGGCAGT CAATATGGGC AGTGAGTGTG AAGGAGCTGC 144600 GAAGGATGAT TCTTTGGTTT TGAGCTTAGG AACATGAGAG AACCAAGATC TCATTTATCC 144660 AAAGAGGAAA CACAGAAGTG AGCCCCTGTT TGGGGGCAGG GCTGGGTAGG AGGAAAAGAG 144720 TGGAGACGTC TATCTCCCCA GGAAGAGAC CCCCTGCTTC CAGATCCCAG TGGATGGCAG 144780 GGCACTCGGC TCATTCACAG ACTGGGCTCG TTGAGAAACC TTTCCCTGGA GGGCAGGGCT GCTCTGTTTC ACAGCCCATA TCCCTCATGG CCAAGTGTTC CTCGAGTGAC AGTCTCTGCC 144900 ATCAATATTT TTAGCATGTG GTCTTTCAGA GACTAAAGAG TGGCATCCAT CTCCTGAAAC 144960 TCCTTCCCCA GCTGACAGCT GGTGACCCGT GGAGGAGGGA GCTTCAGGGA GCCTGATGG G 145020

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CGAGAGTCTG TTCCAATGCC AATCCATTGG AAGAGATGAA GTCAGACCCG AGTTTGATAG 145080 AAAGCCTACT TCCTCCCTTG TATCCAGCTG TGGAGACCTA CCAACATCAA TGCAAACCAG 145140 AAGCTAACAC CCAGTTCATA TATCCCAAGT GGAAGGAAGC TTCTCGTGGA ATTGTCTTAC 145200 ATGACAGTAA CATAAATCCT GAAGGTAATA CTTGGCCAGG TAATGTTAGA AAAGAACCCG 145260 AACATAGGCA TTGCTATTAT AGATCCTAGG ATAGGCCTGA GCAAAAACTG TCTGGGATTC 145320 ATAACATGCT TCGTTGCAAT CTGATAGAGG GAGTGAGATC CACTCCAAAT GGAGTCTGAT 145380 TTGGGGCAAA GCAAAGAGTA TGGAAGGAAA CTTGAGAAAG GGGGACAGCT TCTCAAATGG 145440 AGTCTGGCCA CAGCTGGGGC TGGAAAAGAG ACATGACTGC GCTTGCAGAG TGGTGAGAAT 145500 TTGCTGCTAG AATTTTTAAG TTGTGTGTTT TCATTTTTAT GATAATGTAA ACTGAGATAA 145560 GCATATTCTC TGCTATCCCA ATGAGCCCCT CCTCTAGGAG GACTACCTTG CCACCTTATC 145620 CATAAATGTG TTTATAAATT ATTTTGATGC CAGCTGGTAT TTTTTAAAAA GTGGTTTTGG 145680 ACTCACAAAA AAAACCATGA TGGATTTAAT ACATAACAAA GCATTTGTGT CAAGTGAAGG 145740 CCAAGTAACA TCTTAGCGTC CTGTGTGAGC GAAGGTGTCG TGGCAGTTCA AACAAGAATG 145800 CCGATGAAGC TGCCCAGGAT GGCCAAGGCC ACCTTGGTGT GTTTGAGGGG AATTAGAGTT 145860 TAGAAAAAA AAAAAAGGCA CCTGACACTC TGAACTAATG TGGTTACCTG GAATTTTGGG 145920 GTTTTGAAGC TTTGCATTTA ATTTGCAGCT TATGGCCTGA AGGAAAAGAC AGGTGAAATG 145980 CATATCCTGG GATGAGTCAC CTGGAGGAGA GGGCTGGGAA GGGGCTGAGC TGCACATGCT 146040 CAGATCTTCT CCCAGGCTTA TCGACCCAGT GAGTCAAGTC TTCTTCCAAC GGGATAGAGT 146100 GTGAGAGAGA GCAGGGAACA GAAGCCAGAG TCTCTGTTAA ATTTCTCGGT ACATTTCTGT 146160 TAGAGAATGG AAGTTTCTCT ATCGTAGGAG ACCTTGAGAG CCTGGGATAG AAATTACCCC 146220 TTTGTCATGT ATTTTCCTCC CAGAAATAGC ATGGCCACTG TCACTGCTAA GCTGGAGTAT 146280 CATGAGCACA ATTTCTCTCA CTTTCTATAC CCATGCCTTT CTAGGAGATT GGTGGCTCCA 146340 TCAAAAAGGA GTTAAAAAGA AGCAGCACTA TTTTGTGGAA TACAATCATC ACCATTATCA 146400 CCATCAGCAC CACCAACCAG CACCACCATT ATCAAAAGCA TTCACCTGGT GTCTGCCTTA 146460 CAAACTGCAA ACTGCAGTAG GTATTTGTAA TAGAATGTTT CCTTTCCCCC TTGGGATCTG 146520 CAGAAAAGCT GGAGAATGTT TTGGTATCAA CACACTAGGT TGCATTGCTA ATCATGTGAT 146580 GGCCCCATGA CAGTCTCTGT TGGCTGGTGT AGTTCAGGTG GACGACTGCA GGATTTTGTT 146640 CTTGGAGCCT CAGTTCTGAC TGGGCTTGGG GTGTAAAAGG TTTGGGAGCC AGATGACAAG 146700 AGTATTTGAT GGGTAGAATA ATGGGTTCAT CCAAAAGATC ACCAGAATGG TTATTAAATA 146760 146820 TGGACTGAAA GTGCTCTCTCTTTGAAGAGG GGAAGGACAG ATTGGGTTTT ATGCCTCACA 146880 GGACTGGTAC CATACATATT CAGCAGGTTT TTGGGGAAAA TCTATACATA TTTATAAGGT 146940 GAGCTGATGC CTGCATAATA GATAAACATA TATGTAACAT ACTTTTCATA TTCATTTTGG 147000 GACTGGGTTT TGGCACTAAA ATTTGTGGAA TTTGGCTCTT TATGTTAAAA GGTGAACTAG 147060 AGGACACAAA GACGGTTTGT GTGCACCCTC TATAAACTGG CTGAAACTGG CTTAAGGTCT 147120 147180 GTGGTCCAGG TTGTAAATCA AAGTTTATAG CTCTTTTTGT TAGAGAGTTC AGCTGTAGGA 147240 ATTTAGAAAT TTGCCATGCC TGCCAGGCCC TGAACCTTTG ACCCATAGGT AACTTTATTT 147300 CCTTAACCTT AGGGTCAGTC TTAGTTGATA TGGGGCATCT ATTCTGGTAT CTCAGATCCT ATGGTCAAGA GAAAAGATCC TCCACAAGAG GGTCCTATGT GGCTGCAAAA ACTGCTCTGA 147420 GCTAAATCCA CTCAAAATCA CTGCAGGATG TCACTACTAG AAAATAGGGC AGGGATAGGG 147480 ATCCCCTTCC CATGCTGCCA GAAAATGCCT GATAGCTTAC CTCCCCGGC CCTTGAGGCT 147540 CCCTTGGAAT AGGCACATGC AATCCCATCT CCACCCAATA GAGCTTGTCC TAGAGCTCAG 147600 TTTTTTCCCA TAGTTTTCCC ACCCACTTGC ACCAGAAAAT CTAATAAAGT CATGTGATTA 147660

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ATACAATTCA TTTTATCACG CTTCTGAAGA TTTAAGAGAG AGCGGTCACA TTGGATTCCA 147720 CAGTACCGAC CTTCTGACGA TTCTTCATTT CACCTTTATC TATTTTTATT TTTATTTTAT 147780 TTTTTTTCG AGACGGGTC TCACTCTGTC ACCCAGGCTG GAGTGCAGTG GGGCAATTAC 147840 GGCTCACTGC AACCTCTGCC TTCTGTGCTC AAGCAATCCT CCCACCTCAG CCTCCCAAGT AGCTGGGATC ATAGGTGCAC ATCACCAAGC CTGGCTAATT TTTTGTATTT TTGGTAGAGA 147960 TGGGGTTTCA CCATGTTGCC CAGGCTGGTC TTGAACTTCT GAGCTCAAGT GATCTGCCCA 148020 CCATAGCCTC CCAAAGTGCT GGGATTACTC ACGTGAGCCA CCTCGCCTGG TCCCTTTCAC CTTTATTATC TTTGCCTTTA ACTCTAGTGC TTCCTCCCTG AATCAGTTAA GGATTGCATT 148140 TGGCTGCATT AACAGAAACC TGACTGCAGA AGCTTAACCA AATAGGGTAG TTTTTAAAGA 148200 GAGATTGCTT ACATCACGCA AATTGCACAA ATTTTAAGTG CATAGTTCAA TGAGTTTTGA · 148260 CAAATGTAGA ATAACATAGC TATATAAAAC CATTCCATCA AAAAAATTTT ATCACCATAG 148320 GAAATTGTGT CCTGTCCCTT TCTTGTCAAT CCCAACTCCT CCCCACAGG CAACCTTCAT 148380 TCTCATTTCT CTCACCATAG CTTAGTTTTA CATGTTTCTA TAATACAGCA TCATATAAAT 148440 GGAATAATAC AGAATGCAAT CTTTTGTATG AAGCTTCCTT TGGCTCAATG TAATGTTTAT 148500 GAGATTCATC CATGTTATTG AATGTATCAG TAGTGTTTTC ATTTATATTT CCTAGTGTTC 148560 148620 TATTGAATAA ATATACTACA ATTTGTTTAT CCACTTATTT GTTGATGAAC ATTTGGACCG TTGGCAATTT TTGCCTATTA TGCATAAAGC TGTTAAAAAA CATTCTTGTA CAAGTCTTTC ATTTCATATG TTTTTCTTTT TCTGAGGTAA ATAACTACAA GTAGAATTGT TGGGTAATAA 148740 ATAGGCATCC ATCTAATATT ATAAGCAACT GCACAACAGT TTTTCAACGT GGCTGTACTA 148800 TTTCACTCTC CCAATAGCAA CGTATGTGTT TTCCAGCTAC TCCACATGCT CACTGGCATT 148860 TCCTGTTGCC AGTTTAAACA TTTCAGCCAT TCCAGTGGAT ATGAAATCTC TCTGGCTATA 148920 ATAATTGTAT TTCTCTGATG ACTAATTATG TCAAGCCCCT TTTCAAATGC TTATCAGCCA 148980 CTTCTATACT GTCCTCTGTG ACATGTCCGT TCAATCTTTT TGCTCATTCT TTAAAAACAT 149040 TGGGTTGTTT GTCTTTTCT TAGTTTGTCT TTTGCTTTTC ATTTATAGGA GTACATATCT 149100 TCGGAATACA AGTCCTTTGT CAGATAAATG TATTGTGAAT AATTTTCTCC TAGTTTGTGG 149160 TTTGCCTTTT CACATTCTTA ATATCTTTTG ATGAGTGGAA ACTAACTTTC AAATTATGTT 149220 CACTTGTTGC CCAGGCTGGA GTGTAGTGGT GCCATCATGG CTCACTGCAA CCTCTGCCTC CTGGACTCAA GGGATCCTCC TGCCTCAGCC TCCCAAGTAG CTGGGACCAC AAGCACGCAC 149400 CACTACACTT GGCTACTTTT TTATATTTTT GGTAGACACA GGATTTCGCC ATGTTGCTCA 149460 GGCTGGTCTG GAGCTCCTGA GCTCAAGCGA TTCACCCACC TCAGCCTACC AAAGTGCTGG GATTACAGGC GTGAGCCACC ACGCCCAGTC GAGTAGATCA AGTTTTAATT TTATGGCCAG TAGAGATOTA TITCAAGGOT CTCTATTTTG TTCTGTTGCT CTATTTATCT ACCTTTATGC 149640 CAATTITCTT CTCTTTTGAT TCAGATAGGG TTATAATAAT AATTATTTTT TCCAGGGATT 149700 AGATGGACCA GGGCTGGTGA AGTTGTTCAA GGGAGTGATC AAGAGCCTGG CTCCTTTCAT 149760 149820 CCTTCTGTTC CATCTCCTTT GGCTCATGGA TTTTGTTTTC CAAGTGGCAA GATGGCGCCT CCACCTTTGG TATCCTATTT TAGTTCCTGG CAGAAAGAAA GGAACAGGCT AATGGCCCTG 149880 ATGAGTCTAC CCCCTTTTAA CAGGAGAAAA TTTAAAAAAC AAAAACCATG AAACCCTTTC 149940 CCAGAGGCAA CAACCAGAAT TCCATTTATC TTTCATTGAC CAGAACAGAC CACATGGTCA 150000 CTGGTGGTGG CAATGGAGAC TGGGGAGATG AATATTTTTA AGGTGGCATA TTCCAGAAGA 150060 ACACTGTGCA CTGATTGCAT TAATGAACCC ATTAATGTGC CAAGGGGAGG TTTACCTATG 150120 AGCATGGGCA AATTAGAACC CACTCTTGGA GCTGCAGGTG AGCCAATCCC ACCTAAACAG 150180 TGTGGATGCT ACAAGATGGG GAAGTAAATT GATTCTATTC CATACCCTAA CCTCTCCCA 150240 AGATGTATTC TTAAAATAGA AGAGGGAAGA CAGAAGAAAA CATCCAGAAT ATATTTTTAT 150300

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TGTCTTTTAC TTCTTCAGTG CATTTTAGAT CAGTGCTTCT CAATCTGGCA AGGGGCATGC AGGAGGATGT GAGTTTTATC AGGAAAACTA CACAACCCCC CAACCACAAT GCTACCCCCA 150420 CTCCTGTGGA CCTTCTTTAA GAGAGACTCA CTATTATAGA TGGAGTTGAT ACGATTTTAA 150480 GAGAGGCCAT ATATTATTTG CTTTCTGTCT TGAAAAACTT GTGATTTTTC TGTATTGTGC 150540 150600 TACTGCCAAA GAGAATAGAA ACCTGACTGA GGTGTCAATG TTTATGTAAC TGATTTCATG TACTTTCTGT AGTTCTACCA TTTCTGATGG TTAAAAATTT CTTGTGTGTG TGCAGTTGGG 150660 GAGTGTGTCC TCCTCCTTCT GCTCTTATAC CACACATTAG CACATCAAAA TGCTCTAATC 150720 TTTGTATGAT TATGTGGCAT GTGGTGATGC AGCCTCACAG TGGAAAAACT TCTCTTGGGC 150780 CATTGCAAAT GTAACATTTC TTTCAATCAG ATAGTGCCAT TAAGGATTTC ATTATGGCCG 150840 TCACATCCTG TGACATCTCT AAACATGCAG CATTAGGGCC TAAGTGCAGC CCTGCAGGTA 150900 GAGTTGCCAG GTTTAACAAA TAAAAATTAC ACGCTGGCCA GGCGGGGTGG CTCATGCCTG 150960 TAATCCCAGC ACTTTGGGAG GCTGAGGCAG GTGGATCATT TGAGGTCAGG AGTTCGAAAC 151020 CAGCCTGGCC AACATGGTGA AACCCCATCT CTACTAAAAA TACAAAAATT AGCTGGGCAT 151080 GGTGGCAAAT GCCTGTAATC CTAGCTACTT GCGAGGCTGA GGCAGGAGAA TCACTTGAGC CCTGGAGGCG GGGGTTGCAG TGAGCAGAGA TCACACCATT GCACTCCAGC CTGGGTGGCA 151200 GAGCGAGATT CTGTCTAAAA AACAACACCG TATTTGGGGC ATGCTGATAC TAAAAAATTA 151260 TTCATTGTTT GTCTGAAATT AAAATTTAAA TTGGGGGCCC TGTATTTTAC TGGGCAACCC 151320 ATTTGCAATA TCAGCAACAA TCTCTTATTC AGACCACTGA TTAAGTGTGC AAAATTTGAA 151380 TCTCTGAACA GTACCTATGT CCTTGATATC TTAAATTAAT GAGTGTCTTA GACACTCAAA 151440 GCAGGAGGAA GCATTATGGC AGATGTTTGA GCCCCAGAGA TGTCCATGAG CACAGCATAG 151500 AGCTCAGAGC CTTCTTTATT ATTTGCTTCA CGACAGAGCA AAGGACTGCA GCAGGTTGAC 151560 TGATATAAAA GTTTTACCAT GTCTCACAGC AGGCCTTTGC TCAAGTTTCC AGTAAGGATA 151620 TTGTATCATT TCTTGCCTGC AGTACTTGTA AATCCACTTA CACTGCCTGC TGTTGAGTCA 151680 TTTGTTTCGT CTTGAGTAGC ATGTCATCCT TGTTCCTAGA AGATAGTGAG TTTAGAGACA 151740 GTAGCCAAGC AACAGCAGAG CAGCCTCAAC CAAAACGATT TTCCATTTTG GTGGGATGAA 151800 TTGAAACACA AGCATCTTCT ATCCAGGGGA GATTTGGGGA TCATAAAGAA TCAATCTGAG 151860 CTGGTACCAC CATATTGGCT GCTGCATTTT CTAGAGTTGC CGTAACTAGT CTCACAAGCT 151920 GGGAGGCTTT ACACAACAGA CATGTATTGT CTCATAGTTC TGGATGCTAG AAATCTGGAA TCAAGGCTCC AGGGGAGAAG CTGCTCCATG GTTTTCTCTT AGCTTCTGGT GTTGCCAGCA 152040 ATCCCTGGTG TTCCTTGGCC CGCAGGCGGA TCACTCCCAT CTCTGCCTCC ATTGTCACAC 152100 GGCATTTTCC CAGTGTGCCT GACTCTGTGT TTCTTCTCAT AAGAACATCG GTCATATTGG 152160 ATTACAGGCC CGTGCTACTC CATTATGACC TCATCTTAAC TTAAACAATT ACATCTGCAG 152220 TGATCCTGTT TGCAAATAAG GTCACATTCT GAGGTTCCAG GAATTAGAAC ATAGACATAT 152280 CTTTTGGGAA CAAAATTCCA GTGATAACAG TTTCGGAGAC AGACTAGTCC TGGAGTTTGT 152340 AAGGTGAGCC AGGACCAAGG TGCCAGGATT CTCATTTTGT AAGGTCCAGG AACAAAGTGA 152400 TGTTAATAGA AAGAACATGT TTTTGTTTGT TTATTTGTTT TTGAGACAGT CTCACTCCAT 152460 CACCCAGGCT GGAATGCAGT GGTACAATCT CGGCTCACTG CCGCTGCCAT CTCCCAGGTT 152520 CAAGCGATTC TCCTGCCTCA GCCTCCTAAG TAGCTGGAAT TACAGGTGTG TCCCACCATG 152580 TATATATTC TTTTAGTAGA GACTGGGTTT CACCATGTTG CCCAGGCTGG TCTCGAACTC 152760 CTGCGCTCAA GTGATCCACC TGTCTTGGAC TCCCTAAGTG GTGGGACTAC AGGCACAAAC 152820 CACCACGCCC AGACAGAAGG AATATGTTTC CTTCCAGTCT CACTTGACTG GCTGCTTCCC 152880 TAGATAAÇAA CAGAGGATGT CTGTTGCAGT TCTCATTGCT GGGGAGTCTA AACTGGAATA 152940

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AAACACCCAC TATCTCCATC AGGCTTGCAC TAGAGCCCAG CTCTAGCTGG AGAGAAAGAA 153000 GCTAACCCGC ACAGACACAG GACTGTAGGC AGGGAGCATC CGGGGGTATT TGGGTCCTGG 153060 CTCTGATGTG CCTAAGGCCA ACTTCTCTCT GGCCATGCTG GCGTGCATGA GCTCACTAAT CTTCCTTTTT GCCTTCCATT TTCTCCAATC CTGACTTAGC AAAGGTTGGG CAAAAGAGAC 153180 TCTGTGTGAG TTCGAGCAAA GCCTGAGATG CTGGATTTTC CAAGATACGA GAAGGGGCTG GGGGCTGGGT GAACTGGTGG TGGAGGAGGG AAGGATTAAT TTCCCAAGGA GGGGAAGGGG CCAGGACATC AGGCCCCGGG GACTTTGAAG AGAGGGTCGT GGGTAGGAGG TAGATCAAGT 153360 GGAGTGACAC AAAGGTCAGG AAAGAGGAAG TGTCCACACT GTCCTTCGAC AGACTTGAGT 153420 CTATGGGACT TCCTCCTGC ACGGTACAAG GAAATGAGTA AGTGAGATAA TGTTGTAACT 153480 TCTGGCCCTC TGACATTGCA CTGCCCCGAT GTCACAGTTG GAAACTGTAC CTGCCCCCAT 153540 CCTTGTCTGG GGTGTGTTTG GTCTGGGGAG GGCTGGTGAA GCAAGAGGTA CTCAGAAAAA 153600 GGACAGAAAT TGCTTCCTAT TATCTGGGCA TTTGGAGGTG AAGGGGTCAC AGCTCTGGCA 153660 AAGATGGGGT TGAAAGGGCC CGGACTCCAG GGAGGGGCAG CTCTGCATGG CCTGATTCCT 153720 GCACCCCACC TTTGCCCCCT CACACCTCCT CTCATCTCCC GTTTTTGAAG AGGAGGACCC 153780 TGTCACATCT GGACAATTCT GCAAGAACTC TGTAGAACTG ACTTCACTGT GAACCAGGCT 153840 CCAGAAGTCA ACAGAAACAA AAATGCTCAC ATTTAATCAC GATGCTCCCT GGCATACACA 153900 GAAGACTCTG AAAACTTCTG AATTTGGGAA ATCCTTTGGC ACCTTGGGGC ACATTGGGAA 153960 CATAAGCCAT CAGTGCTGGT GTGTGTGTGT GTGCGCGCAC ACGCGCATGT GTGTGCATCT 154020 TCTACCATGC CTCCTACAAA TTTGACCTGG GCCCAGGGCC ATGTTCGGTG GTTTTTAAGA 154080 ACCGAGGCTC CCAGAAGCAG TATTGGGCAG CTAGAGTGGC CCCAGGATCT ATATCAAACT 154140 CTACCTGTTT CTGAACCAAA TTTCTTCTAG AATTTTATTC CATAAATCTG AATTATGGTG 154200 TCAGACTCCT AGCATACACT AAAGGAACTC TCTGCCTTGC ATTAAATAAC AGGAGTTACC 154260 CCTGGAGGTA ACTCCTAGCC CTGGCTCTTT AGAGAACAGA TGCCGAATAG GCATTAGGGG 154320 ATGTGATGGA TGTGCTAACT TTCAAAAAAA AAAAAAAAA AAGGCCTGAG CTGAGTGCTC 154380 AGAGATTCAC AAAAAGCTGA CAGCATCTCT CTGTTCCATT GGAAGCTGGG TGATCCTTTC 154440 TACTCTTTCC TGAGAAAGGC AGTTGGGCAG GAAAAAGCTG TATCTCTGTC CTCACTGAGA 154500 GGGTTTCCCA GTCTGAGGGT GAAGGATCAG GAGAGGGAGA CCTGACGGGT CGATGTGGGG 154560 CATCATCCAC TTGAGTGAGA ACCAGAGGGA TCCCGTCATT GCCCAGGGCA GATGCTCCAT 154620 TTTGGGGGC ATCATTCATT CTTTCCTGTT CTCCCTGCAT TCCTCTGGCT CCTGCCCAGG 154680 AGAGGTGGCC GCTGGCAAGA GAGCTTGGTG GAGGTGGGAG GTGGGAGGTG GGGGGTGGGG 154740 GGTGGGGAGT TCTTGAGCCA GGACCTAGCG CATAGTCTCC AGCCTGCTGA TGGCTGTCTT 154800 GGATGCTTCA AAGGGGAGAA GATCCTAGAT GTGGGAAACA TTGGTGGGCG TTCTGCTGGG 154860 GCATCTGTAG CCTCTGAGAA GGCTACCAGT CTCTCCTAAG CTTACGCCGT CACACCCTGG 154920 GCACTTGTTG AATGACTTTA CTTAGCTTAC AGCCTCTGGT TCCTGTTGGG AAACTTAGGG 154980 CTTGCCACAG TGTTCATTTT CCTTTGCGGG CAACTCCGTT CCTGGCACTT ATCATATTAC 155040 CCACTGTACT CCCCGCTTAG AGCTGTGTCA AGGTTCTGAG AATCTATCCC TTGGCTTGGA 155100 AGGGGTCATC TCTCTGGCCA GATCATTTCC TGATAGGTCC TGAGGCACCA CAACACATAG 155160 GAGGCTTGTC CTCTCTGG GGTTCACTGC CTTGCTCCTT CTCCAGGTCA ATATGTGACC 155220 TTGGACCGGT TGCTTGAGTC CCCTGGTCAT TCAGAAACAA TTGGGTTTCC CTGGCTTTGG 155280 AGCCTGGCAG CCTGGCTTTG AGAACCGGGC TTTAACTTGT CACATGACTA TGGCCAAGTT 155340 CCTGGGGCTC TCCAAGCTTC ACTTCCTCTG TAAAAAGGGC AATAATATAA TACCTGTCTT 155400 ATTGGGTTTT GTCCATGTTA GATGAGACAT TGGGTACAAA GCACTTGGTC CCGTGCCTGG 155460 CACATTTACT GCACTTAATG TATGATAGTT TTCTTATTAT TCTAATAAAC AATATGGCTT 155520 TGGGAGTATA GTTCTGCCAC ATTGCAGTGG CCAGAGTGAA GGTGGTGAGT GCCTTCTGGG 155580

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GCCCTGGGAG TCAAGGTTAT CCGCATGCCC TTTCTTGCTT GCTCCTCAGT GTGGCTGCCT CTATGTCCAC ACCATGCAGA TGCAACAGGT AGTTTGAACC TCTGAGGCCC ACAGTGGGAT 155700 GGGGAGGCAG GGACATCACT TATGGGGTGG GAAGTCACCC ATTCCCCAGG AAATGGCCCC 155760 AGCTGCCTTT TCCATGACTC CTCTTGAAAC CCTGTGGAGG CCACATTCGT GTTGGGGCGG 155820 TCTTTCCCAT GAGGATATGT TCAGATGCCG AGGCATTTTG AAAAGCCCTC CATAGAGTTT 155880 CCTTTCATAA CACATGATCA TCCCCTTGGG CTTCTGGTTT TTTTTCTTTC AGGACCTTAT 155940 TTTCAGGCAA GTGGCCTTTG ACCTCTAAGG CTGTCCTTTC CTAGCTACCG AATCCAGCAT 156000 TCAAAGTGAT GGAAATATGT ATATATAGTA ATAGTAAAAT ATCAGCACTT AATGGCCTGA 156060 TAAGAATGTC ACTGCAATGC TGAGTTTGGA CCAACATTTG CCTGCTCCTG CCATTGAGCC CGGGCTCCCC TCCAGAGCTG AGCTGCTGCA AGGGATCTGA GTAACTAGGG CTGTGTCAGA 156180 GTGGCGATGA CAGCCACCAC ATGCTAAGGA AGAGATCCCC AAGGACAAGG AGAATCCCAC GTGGAGCTAC TTGCTTCTTT GTCAGTCTTG TTTTTCTTAT TTCACAACCT TCTAAAACAC AATCTCTCAA CCTCTATTGT TAGCTTGCAT TTTTCAATCA TGAGCACAGC TTTACCTGGC 156360 TCCATGCTTT GATTGACTCT ACCTGCCAAC ACTGCAACAA CAGGGAAAGG GACACCGGCC TCATACCATT AGATGGTGTG TAGCCTGGGC ATGAGGATAA TTAAAAACTC CCAAGGGGAT TTTAACATGT AACACAGTTT GGAAACCATT GATGTAAGAT CTTCTTACTC AACATGTGCT CCAAGGAGCT GTTGTATCAG CTTATCAGAA ATGTAGATCA GGCCGCACTT GGACCTGTAG 156600 AATCAGAATC TGCATTTTAT CAGATTCCGA CATTATTTGT ATGAACATTA GCTTTTGAGA 156660 AGTGTTGCTT TAAGAGACTA AGGGGGTCAA TCTACCTCAC TTTGCAGCTC TGTGTTCCTT 156720 AGTCATTGGC TAAAATATCA GCCCCCTGC AATGAGCCAT CCTCCCTTGT ATAGTCAGTG 156780 ATGGCCTGTG AACCTTTAGC CAACTGGAAG TGGGAGGGGA CACAGTCCAC AAAACACTAT 156840 CCTGACTTTT GACACCAACT ACAAGTCAAG GGGTTCCCCA AACCACCCTG AGTTGTGATA 156900 ATTCGCTGGG AGATCTGACA GAACTCACTG AAGGTTGTTA TACTCATGGT TGTGATCTCT 156960 TATAGGGAGG GAATACAGAT TAAAATCAGC CAAAGGAAGA AGCACACAGC ACAGAGTCCA 157020 GGACAGTGCC TGACATGGAG CCCCTACGGT CCTCTCCCGT GGAGTCACGG ACAGCGCCAC 157080 TCTCCTGGCA TTGATGTGTG ACAACACACA GGGAGTGTTC CCCACCAGGG AAGCCTTGGT 157140 GTCCAGGGTC TTTACTGTGG CTCTGTCACA TGAGCACAGC TGACTGCCCA TGCGGCCGAT 157200 CTGTTCCCAG ACTCTCCACC GCTACACATC ACTCACAGTC CCTGCTCTAA ATCACACACC 157260 ATGACCCAAT GTCCCCGGGC AAATGAAAAC ACCTCTAGCA GGCAGGACGT TCCAAAGCCT 157320 157380 TAGAGATCAC CTCTCAGAAG CTGAGGGCAG AAGCCAGACC TCTTTTTGGG CAGGGTTAAA TTCTTTATTA CTGTTTTTGA AAAAACTCCC AAATTGAGTT TTTCCTCTTC ACTTACAGCA 157440 GCATAACAAC AATCATCAAT GCAGAAGACT TCTGCGAGCA AAGGTGTGGG GGAAAACCCC 157500 AAGCAGTGGA CACTAGCTGG TGTCCTCCAA TTTGATTCTG ATGCTGTCTA CTGGGAGATA 157560 GTGTCAGATC CTCAAGCCTA AACCCTCCTT CTCCCAGTCA GAGGGCTGGC CTTTGGAACT 157620 TCTGACCAAT CCACTTCAAG TTGAGGTTCC AACCACTCCG CTCTTTGGGT TTGGTTGATT 157680 TGCTAGAGTG GCTCACAGAA CTCAGGGAAA CACAGCTACC AGTTTATTGC GAAGGACATT 157740 TTAAAGGATA AAAGTAGGCA GATAAAGAGA TGCATAGGGC GAGGTGTGGA AAGGTCCCTA 157800 GTGCAGGAGC TTCTGTCCAT GTGGAGCGGG GGTGCACCAC CCTCTCAGTA CATGAATGAG 157860 TTCTCCTTCA CCTGCCTATC AGCCTCTACA TGTTCAGCTC CCCAACCCAG TCCTCTTGGG 157920 TTTTTATGGA AGCTTCAAGA CACCCACATT CTTTCCCCAG AGTATAGGGC AAGACCTTCT 157980 CTGGGGAGGG TTTTAAGACC CACAGTCAGA AAGGTGGGGT GGGGTCAAGA TTAGAGTCCT 158040 GCCTTGACGG GCAGGTGAAA GGGGTAGGGG GAGTAGGTGA GAAAAATTCT GTTTATTTTT 158100 TCTTTTTTT TTTGAGACGG AGTTTCACTC TTGTTGCCCA GGGTGGAGTG CAATGGCACA 158160 ATCTCAGCTC ACTGCAACCT CCGCCTCCCA GGTTTAAGCG ATTCTCCTGC CTCAGCCTCC 158220

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CGAGTAGCTG GGATTACAGG CGTGTGCCAC CATGCCTGGC TAATTTTGTA TTTTTAATAG AGACAGGGTT TCTCCATGTT GGTCAGGCTG GTCTCAAACT CCTGACCTCA GGTGATCCAC 158340 TTGCCTCAGC CTCCCAAAGT GCTGGGATCA CAGGTGTGAG CCACTGCATC TGGCCAAAAG 158400 ATTCTGTTTT TGAGGCCTGC CTCTGAGGTC TAACACACTC AACATTATAA CAAGACTGTA 158460 GTAAGGGCTA TGGGAGTTAT GAGCCAGGAA CTGTGGATGA AAACCTATCA CAGATATGCA 158520 TATATATAT TATATATATA TATGCATATC TATAATAACT CCACAACTAC ACACTGCCTT 158580 ATTGCTCAGT TCTTCTCCC ATGTCTCTGA CCCACCCTTG CCCCCTTCCT CCATCCTTTT 158640 CTCCATTGCA TACCCATCCA CTGTGCCCTT TGGAATGCTC ACACCATGAA CTGCAAACTC 158700 TCGTGTGGCT TCAGCCTCTT CTCTGAAAGT TCCTCTCACC TATTACTTTC TCTGGAACCT 158760 158820 GCCATCCTG CCACCTTCTC AAAAAAGGCC TTTTATTCTC TTCATTCCAC AAAGCTCAGT GTCAAAACAT GGGGTTTACA CTGGAAGCTG AGGTCACATC AGTAGCCGGG ATCAGGGTCG 158880 CCCTAGCTGC CCAATGCAGC TCCCAGGCCT CCTGTAAAAC CTTGACCTTT GAGGTCATGA CAGCCCTCTC CTGCTATGCT CATAGCTGAC CACTGAACTC CTGGACACTC CCTCCCCAA GTTCACAGAG AATGTGGGCA CATGCCTTAC AGTCTTCCCT TGATCCAAAC TACTGCCTTC ATCTTGAGTG ACAGCAGCAT CTTTTGGATG TCTTGGCCTG TCTAGCTTTA TTTTTTTGTG 159120 TTCTGCCATC AAGTTGCTAC TTCTGTTGCC ATCGTGCCTG TCAGCGCAGT GCAGGCTGTG GTGAAATCCC ACGAACTCAG GCATCACACT GACCGGGTCT GAGTCCTGTC TCAGTTGTCA GCTAGTTGTG CAATGAAGGG AAAGGGACCT ACACTTTCCA AGCCTCAATT CACTCATCTA 159300 TGGCATGGTG ACAATAATGG AGGTTGATTT AAAGTCCTTT GTAAGAATTA AGAGTTATAA 159360 TAGACATAAA GTGCTGTATC TGGTATACCT AGAAAACATT CCATAAAAGT TAGTAATTGT 159420 159480 TGGTCATGTA ATGATGACTC TCTAGGCTAG GATTTCAGCT TCATTGCATG CACATGGTGC ACTCACAGGG CGTGACCTCT CTCTGTCTCA GTAACCTCAT CTGAGGACCG GGATAATCAT 159540 ACCGCTTCAA AGGGATGTCA TAAAGATTAA ATAATATGTG TAAGGCTGCT TGCATTTAGC 159600 TGCATTCAAC AAATATTTCT GTATCTTTCT CCTCATTTCT CCTTACTTTC TTGCTTATTA 159660 TCTGCTCTAG GTATAGATTT CAGAGAACTA AGCTTGTTAC AATCCTTCAT AAAATAACCA 159720 GGTTGGTTAG GGCATTTCCA AGAGTCAATA CTGTTTAGTG ACTATTCTCT.GTTTAATCTA 159780 TTTTGATTGT CCAGGGTCAT CTTTTGCTAT GTCATAGGTT GTTGGCTTCT TCTAGAGAAG 159840 TGAGACGATG GACAAGTTCC AAGTGAGTGA GGCGACTGGT CAGGATATTC CGCTGAAAAA CTCATGTCAG TTCTAATTCG TGATTGTAAT TCAATCACAG CCTGAGAACA GTAGGACTGT 159960 AGTTCAAATG CTCTGTTCCC TTTTTTTTT CCCAGAGGAT AATTTTTTTT TTTCTTTGAG 160020 ATGGAGTCTT GCTCTGTCAC TAGGCTGGAG TGCAGTGGCG TGATCTCGGC TCACTGCAAC 160080 CTCCGCCTCC TGGGTTCAAG CAATTCTCCT GCCTCAGCCT CCCAAGTAGC TGGGACTACA 160140 GGCACATGCC ACCACGCCCA GATAATTTTC GTATTTTTAG TAGAGACGGG GTTTCCCCTT 160200 160260 GTTGGCCAGG GTGGTCTTGA TCTCTTGACC TCATGATCCG CCCACCTCGG CCTCCCAAAG 160320 TGCTGGGATT ACAGGCGTGA GCCACCGCGC CCGGCCTCTA GAGGATAATT TTTAAATGTG CTTTTGCATT TGGAAAATGT GATTGGCATT TTTTTCTAAT TTTCTAATAT GATACGCTGT 160380 CGGATGCTAT GGATTACTTA AACCCTCTGG CTACCTAGAA AGATCTTTAA GTGGTTCTCA 160440 ACAGCTTCA TACGCAATGT AAATTGTATT ATCTCTCAGG ATGTGTGAGA ACATCTGTTT 160500 TTCTTCTAAT GCAGTAAACA TATAAGGGTC TCTTGGGATA TCTTTTAAAT AGACTTAATA 160560 CAACATTCAG GAATGATAAC AAAATATAAT CACAGTTGTA AGGGAATGTG AGCATTTCAT 160620 ATTAATAACA TTGGAACCTT ATGTTTAATA CAGTGTTAAA AGTTGACAAA CATGTAGGAG 160680 TCAGAAAATT CAATTAAAAT TATCACAGTA ATATGAATTT AGCCACATCC TGTGTTAGTT 160740 ATGAAATCCA TTTAACACCA CAAACAGTAA TATTTTTAGC CAGTTTATTC AAAAGGAAAA 160800 CAGGAACTAA ACCACTTTCA TGCAATATAT ACTCTGTTAA TGTGGTCAGG CTAATTTTGC 160860

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TGGGGGAAGG AACTTAACTT TTGAATATTT GAATGCCCAG TCATTTAATC TGAATATCCT ATTTCCTTGC ATGTTGCAAA ATTTTTGTCA ATAAAAGGCA GAAAAAGAAA TCTCTTCTCC 160980 ATGCTCATCC CTAAGAGAAT GGGTTGTCTG TACCCTGAGA GCATTTTATG GAGGGGACAA CCACTTTCT AATTTCCTT CCCACTTCTC TGTGGGCACA AATGCTCTTT GGTTGAAAGA 161100 GTTGTAATTC AGTCCCAAGA TGAGGTGTGG TTACTGCATC CCTAACCTAT ATCTGGGGAC CCCACAGCCA CACACATGGG GGAAATGGAG CTTGTCATTC AGTTCTCCAG CCATTGCACA 161220 GGGTTCATGG ACTCTTCGTT GATCCCACCC CACGCTTCTT CTCTCTGCTA GCCGAACACA 161280 CTTCTCTTT CTTTATCAGG AGGCCATAGG AGAAGGGCAT TCATTTTTAA TACACATACA 161340 TCTGCATCAA GTCTAATTTT GCCATGTCTC AATCCAACTG TCAAATGGGT TGTTTGGGGG 161400 CTATGGTGCT TATCAAACAT TTACTCAAGA ATAGCCAAAA TTAGCCAAGC AAGGAGAACT 161460 TCAGCAACGT TCCCAAATGG CCCCAACCAA GTACTGTAAG ACTGAGGATA GCTAAAGGGT 161520 CTTGAGAGGG ACTTCTCAGG CAGTGGCCCC GACATTTATC TGTTTTTTTA AGTGAGAAAT 161580 CTGAGTACCA TTCTTGACTC CTCTTCCTTA CCCCCAACCC CTCACTAAGC CTTGTGCTAC 161640 TATTTAGTAA ACAGACCCTC AATGCACAAA CTTCTGTCTA AGGCCATGGC CACCACCCTA 161700 GTCTAATCCA CCATCTCTTC TCTGGAACAG ACCCCAGCTG CTCTCCCTGT CTCTGTGCTG 161760 GTCTCTCAAT CCATGCTCCA CACTGCAGCC AGAGTGCTCT ACAATGCAAA TCCATTTGTG 161820 AGACTCCTCC TCTTAAAATC CTCAAGTGGC TTCTCTTTGC CCCCAGGATC ATTTTGAAAC 161880 TCCTTAATGG AAGAGGCATG GCCCTTTGGG ATGTGGTTCC CCAACCCCTC CCACATCATC 161940 TTTTCAATCA GATTTCCCAC TAAATGGAAA TTTTTTCAGG TCCTCAACTT TATGGTGACT 162000 TTCTCTTGCT CAGGATCTTT GAACATACTG TTTCTTCTTT CCTTTTGTAT TTGCCAAGAC 162060 AACACTTCCT CTGGTAAGAT TTTCCTGACA TCCTCTATAA AAAAAGATTG AGATAGTTGA 162120 CTACCCAAAA TGTTTCCCAT TCATTCCAAG CTCTATTCAA GGCAGTAAAG TGCCCGGCTG 162180 ACAGATTGCA TTCCTCATCT TTTCTGAAGC TAGCAATGGC CATGCAACAG CATTCTGGCC 162240 AATAAGATAG AAGTCGAAGT TGAAGGGTGG GATTTCCAAG AAAGCTCGTT GAAGACATAA 162300 TTCCTCATTT CACTTCTTAC TCTTTCTCTT TCCTGCTTCC TAAAATGCGG TGCAGATGGC 162360 AGACACTTCA AAGCTGTCTC AGGCAATCAG GTGATGTTAA GGCAGAAACC AGCTTTATGA 162420 TGGGTAGAAC AGGAAGAAAG AAGGCACCTA TGTTCTTGTT CACCTTGAAC CACACCAGCA 162480 CTGCCTTGCC TACCCCTGGA ATTCCTTTAA TGAGAGGCAA ATGAGAGCTT ACGTGTTTAA 162540 GCCATTGCTA TTTTATTTTT TTTTGTTTAT ATGCAAAAGA ACTTAATCCT AACTGATATT 162600 AACACTAACT GGGTCTATTG CTTGGTACCA AGCCAATGCA TGACACATGG TATATATGCT 162660 CAGTAAGTAT TTGTTGAATG AGTGAGGCAA TGAAAGAACA TAGAGGATAT ATATAACAGT 162720 CCTCCTGCCC AGATGTCATC TGATCCTCTT TAGGATCTGG GCCCATAAAA CTGTATCTGA 162780 TATAGTTTGA ATATTTGTTC CCTACAAATC TCATGTTGAC ATTTTATCCC TAATATTGGA 162840 GGCAGGGCCT AGTAGGAGGT GTTTTGGTCA TAGTGATAAA TGGCTTGGTG CCGTTCTCAC 162900 AGTAACGAGT GAGTTTTTAT TCTAGTGGTT CCTGCAAGAA CTGATTGTTA AAAGAGCTTG 162960 GATCCTTCCA CCCCTCTCTC ACTCTTGCTT CCTCTCTCTC ACCTTGTAAT CTCTACAAGC 163020 TCTTCACCTC CCCTTCTCCT TTTGCCATAA GTGGAAGATT TCTGAGGCCT CACCAGAAGC 163080 AGATGTTGGT TCCATGCTTC TTGTACAGCC TGCAGAACCA TGAGCCAAAT CAACTTCTTT 163140 TCTTTATAAT TATCCAGTCT CAGGTATTCC TTTATAGCAA CACAAATGGA CTAAGACAGT 163200 TTCTAATGCT ATGGTTCCTT TAGTAGGTCA GTGTAAAACC CTGGATCACT CCTGTAACAA 163260 ATTACTTGGA ACTCTTCTCA CCATACATAT TTAAAAATAG TTGCCATGTT GAAAATCCTA 163320 TAAGATCATA TTTTATTTCA AATCCAACAA CTCATTGCTA AGGAGATACA AGAAGCAGAA 163380 AATACAGAGA GACTAATGTG TTGATGATTT TTGTGAGGGA CATAAGGTCT GTGTCTAGAT 163440 TCATTTTTTT GCATGTGGAT GTCCAGTTGT TCCAGCACCA TTTGTTGAAA AGACTATCTT 163500

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TGCTCCACTG TATTGCTTTT TCTCCTTTGT CATAGATATC TGGTCACCTT ACCTTAGAGT CACAGATGAA TGGTCCTATT ACTTAACTAC TGAAAATACA GGCCAAAGCA AACAGAGGAA 163620 TAAGGGATAT ATAATAAAGT ATTTGTGTAC TTGACTTGGC TCTAAAGGAA GCATTGCGTG 163680 TCTGTGTAAA AAGAATGGGT GAGAGTTTTC CACCATTCAA TATTTCTAAT CTTTCTGAAA TACAAAGCCA GGACATCCTC TAATCCATAC ATTCCATAGT TTGGTTAATA TAAATTCCTT TATTAAATCC TTATTAAATA AAGTTATTTA TGTTTCTATG AAACTCATTT TAACTCCTAA 163860 GTGAAAAATA CTACTGAGCT AACTAAACAT CAAACATTTT TAATTTTTTA AATTTTTTTA 163920 GAGACAGGGT CTTGCTATGT TGCCCAGGCT GGCTTTGAAC TCCTGTGCTC AAGCGATCCT 163980 CCAAACTCAG CCTCCCGAGT AGCTGGGACT ACAGGTGCAT GCCACTGTGC TCAGCTAAAC 164040 ATTITITIGA AATGCTCTTT TAAAATCAAT TITATTGAAG TATAAGTTAC ATACCATAAA 164100 AGTACTCATT TTGAGTGTAC AGATTGACAA GTTCTGACAA ATGTGAACAA CCATGTAACC 164160 ATCACCAAAA ATAAAGATAT GAGACATITIC CATTACCCCA AAAAGTTCCC GTGTCCCTCT 164220 CCAGTCAATA TCCAGCCCTA GCCCCAGCTC CAGGCAACCA CCAATCTGCT TTCTGTTGCT 164280 ATAAATTGTA CTTATCTTTT CTAGTGTTTC ATACAAATGG AATCATACAG CATTTACTCT 164340 TTTGTGTCTG TCTTCTTCTG CTCAGTGTAA TGTTTTTGAG ATTCATCTAT GTTCTGTGCC TCAGTAGTTT GTTCTTTTTA TTACTGGATA ATTCCATTAT AAGAATATAC CACAATTTGT 164460 TTATCCATTT ACTGCCTGAT GGGCATTTGG TTGTTTCCAG CTTTGAACTA TTTTGAATCC TAAAAGACTG CCAGTTTTGA ATGAGACCCC AGAACAATGA ATGTAGGCTC TGTATACAAG TTCAGGCTGC TGGGCAACTT AGGCCTTAAG ACACAACTCT GCCACTTAGG CCTTAAGACA CAACTGACAT GATGGTGCTT AAAGTGGCTG TGATGGAAAA GGAGGCTGTT TGGAGCCTTT GGAGTGCCTT TATAGGTGAA CCCCAGCATA GCACCTAATG ATTTGGAGCA AAGCTGTGTC 164760 ATTCCCCAAA GATAACTATT CGCCTTTTGA GAAACATCTT CTAGCTACTA TCAATAATAA 164820 ACACAGAATG CATCACCATG GGCCACCGTG TTGTCTTTTG ACCTGAGTTT CCATTGTGAA 164880 CAAGAGTCAT TTGATCCAAG GCAGAAAGTT GGGTGCACAC AGCAGTGTTC CATCATCAAA 164940 TGGAATATGA GATTGGGCCC AAGTAGGTCC TGCAGACACA AATAAGTTGC AAGAGCAAGT 165000 AGTACAGGCG CTTGGCCTGG CCAGTACTGT TGCCAAGTTG ACTGCTTCCC CTCAGTCTGC 165060 ATCTGTGGCT TCATGGGGAG TTTCCTATGA CCACTTGATG GAGGAAAAAA CAAATTGGAG 165120 CATAGTTTAT AGTGCTGGTA CTACCCAAAG TGGCTAGCTG AGGCACTACA TCTCCACTCT 165180 GGGGTGCCCG TGAAGGACAG TGCCAAAGGA AAACCCCCTC AGTGAGCAGA ACTTGGAGCA 165240 ATACAAGTGG GTGTTCATTT TACCTAGAAG AGAAGATGTC CGTGAGTTAC AGATCTACAC 165300 AAAATCACAG AGAGTGGTTA ATCGTTTAGT CTGATGGTCA GGGACTTCCA AGAGACATGA 165360 TTAGAAAACT GGTGACAAGG AGTCCTGGGG AAGAGGCATA TGGATACCTC TGAACACACA 165420 CAAAACATGA GAATATGTAT CCCATATGAA TGTTAACCAA AGAGCAGCCA CAACAGAAGA GGATTTTAAA ATCAGCTGAA TAAGATGATT CATTCTGACA GCATCAGCTA GTCTCTTTCC CCAGCCACTG TTGCCCAGTG GGCTTACATA TATCATGGCC ATGGGGGCAG GGCTATGTAT GGACACAGCA ACATGAATTT CCACTCATCA AGGCCAATTT GGCTCCAGCC ATTGCTGAGT 165660 GCTCAGCCTG CCAAGATAGA AATCTACGCC AATATGGCAC CATTCCCTGG GCTAGAAAAC 165720 CAACTGGTGG AAGGTTGATT ACATTGGACC ATTTCCATCA TGGAAGGGGC AGTGCTTTGT 165780 CTTCCCTGGA ATAGACATTT ACTCTGGATA TGGATGTGCC TTCCCTGACT ACTACAATGC 165840 TCTGCCAAAC CTACCATCCA TGGGCTTAAT TTTATTTGTT ATAAAATTTC AACCACCATT 165900 GCTTCTGACC AAGGAAGTAA TCTTACAGCA AAGGAAGTAC AGATATGAGC TTCTGATCAT 165960 GGGCTTCACT GGCCTCACAG TGAAGCAGGT GGCCAGATTA GAACAGTGGA ATGGATTTTA AAGGCTCAGT TACAGCACCA GCTGGGTAGC AACACCCTGC TGGCCTGGGG TTATGTCCTG 166080 CAGGATGCTT TAAGTCAGTG ACCAATATAT GATGCTATTT CTCCCATTGT CAGGATTCAT 166140

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GGGTCCAAGA ATCATGGGGT CAAAATGGGA GTGGCTTTTC TCACTATCAC CCTGGTGTTC 166200 GGGTAGTAAT TTTTCCTTCC CATTCCTGTA ACTTTGGGCT CTGCTATTGC AGAAATCTTA 166260 GCTCCTGTGG GGGGAATGCT TCCATCAGGG AATACAATGG TGGTTCCACT AAACTGACAG 166320 CTGAGTTTGC CATCTCCTCG TGCCAGTGAA TACACAAGCA AGGAAGGGGG TTCCTTTCTC 166380 166440 ACCTAGGGTG ACTGATCCTA ATTACCAAGG AGAAATTGGA CTGCCACTTC ACAATGAGGG 166500 TGAGGAGTAT GTACTCTATG TGTCTGTGAT TAATGTCAAT AGAAAGTGAC ACCAACCTAG TACACAGAGG ACTGATCATG GTCCAGGCCC TTCAGGAATG AAGATTTGAG TCACCAGGCA 166560 AGGAACTTGG ACTCACTGAG GAGGGCATAT TCCAAGGAGA ATATTTTATC TATGTCCATC TATGTCCATC TATATTCCAT CTGTGTTCCC CTTGGAATTC CTATTCATGA ACATGGGGAA 166680 TTCCAAGGGG AATATAGAAT GAGTAGTGGA AGGTAGTTAT AAATGTAAGT CAAAAACCAC ACAACCAATT TGAGAAATGA GGAAGGTAAT AGTGTTGAAT ATGTCTTCTT TATCTTGATA 166800 TAAATGTATT TGTGCATATA TTAACCAGTT TATTTATTTA TTATTATTTT TTGAGATGAG 166860 CTCTCGCCAT GTTGCCCAGG CTGGTCTTGA ACTCCTGGGC TCAACTGATT CTACCATTTA GTCCTCCGAG TAGCTGGGAC TACAGGCATG CACCACCATA CCCAGCTGAC CAGTTTTTTC 166980 CTATTCCTCT ACTTAATTTC TCTACTATAC AACATAATAT GTGTTAATGG TAGTTAACTT 167040 TATATCTCAG TATTAAGTCA CAAGATATCA AAAAGGGAAT GCGACTTAGT TACAAGCAGA ATGAATATCA CTCAAAGATG AATAAAGAGA AGAGGGTTAG TGCATTTTCT GTTGGATGAG CACTCTGTGG CCCAGGCTGC AGTGCAGTGG TGCGATCTTG GCTCACTACA ACCTCTGCCT 167280 CCCGGGTTCA AGTGATTCTC CAGCCTCAGC CTCCAGAGTA GCTGGGATTA TAGGTGCGCC 167340 AGGTTAATTT TTGTATTTTT AGTAGAGAAG GTGTTTCTCC ATGTTGGCCA GGCTGGTCTT 167400 GAACTCCTGG CCTCAAGTGA CCCACCTGCT TTGACCTCCC AAAGTGCTAG GATTACAGGT 167460 GTGAGCCACT GTGCACAGTC ACCACGGTCT TTTTGGGAGG CAACTTTAGC ATGGTTAAGA 167520 GGTGCGAATG GATGTTAAGC TAACACCAGG TAAGCCCTGG TAGATGTGTA TTGTGTCAGT 167580 GGGCCTACGC TGGAGCCATG TTTCCCCAAA TTCACTTTTC CTATGTACCT CTGGATTAGT GTGGGCCACT GGAGACATTT CACATGAGAT GAGGAAGGTG GGAGTGAAGG AGCAGCATCT 167700 TTTTACACTA AGCAGGTCGG GGAGGGCATG TGGCTCTGTC TCACATTGTT GGGAATCTGT 167760 167820 CCATCATCTG GTTGGCTTAG GTCAGTGGGT GAGTTCACAG CTGTTCCAGC TTCTGCTGGA AACTCCTTCG GTTTCTCTGA CTGCTCCGTG ATGAGGGCAT CAGATTCTCC TGCAGAAAGC 167880 CCCAGTGTTG AAGTTGGGGC TTCATGTTGG TGAGTGATAG TTACGGGTTC TAGCCCAACC 167940 TGTGGTTTCT TGCAAATTTC AGTGTCAGCT CAGTCTTGCG GGTTTTGGGT TGTCCTTGCT 168000 TCCCACACTT CATGCCTTTC TTTCCCTCCT GACAGTCTGC CCTTTAGATT TTAGGATTCA 168060 168120 GCACCAGCCA CAGAAACAGC AACCTCACTG TTAAGGGTTG AATTGTATCT CCCCAAAAGG TAGGTTGAGG CCCTACCTGC CAGGACTTCA GAATGTAACC TCATCTGGGA ATAGCATCAT 168180 TGCAAATATA ATTAATTAAG ATGAGGGCAT ACTGGCTCAG GATGGGCTCC TAATTCAATA 168240 CAACTAATGT CCTTCTATGA CAGCCACAGG AAGACAGAAA CGCCAAGGGA GAACACCATA 168300 TGCTGATGGA GGCAGTGGCA GCTGCCAGCC AAGGATTATA ACCAGAAGTC AGGAAAAAGC 168360 AAGAAGGAAT CCTCCCTTAG TGATTTTACA GGGAGCATAG CCCTGCTGAC ACCTTGATTT 168420 TGGACTTTTA TTCCCCAAAA CTGTAAAACA ATACACTTCT GTTGTTTTAA GCCACTCAGT 168480 TTGTGCTACT TTGTTATGGC AACTCCAGAA AACAAAAATA CACTCAGACT GTTTAATCAA 168540 CCTCCATAAT TGCATAAGGT CTAATCCCTA TAATAAATCC CTTAAAAATG TCTGTGTATA TATATTTAAA AATATAAAAT ATCTTCTAGT GGTTCTGCAT CTCTGGTCAA TCCCTGACTG ATACAGAATA TGTATTTTCA TTTCTAATGA TGAAATACCT GAATGAAATT TCTAGGACAT ATGGTAAGTG TATGTTTAGC TTTTAAGAAA CTGCCAACTT GGGGGAATTG CTTGAGGCCA

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GGAGTTCAAA CAGCCTGGGT AACAGTGATA CCCTGTCTGT ACAAAATAAA AAATATTAGC 168840 AGCGTGTGGT GGTGTGTC TGTAGTCCCA GCTACTCAGG AGGCTGAGGT GGGAGATTCA CCTGAGCCCA GATCTTTGAA GTTATAGTGA GCTATGATCA CGCCACTGCA CTCTAGCCTG 168960 GGTGACAGAG TGAGAAAGCT GGTCTCTAAA AAACAAACAA ACAAAAAAGA AACTGTCAAA CTCTTCCCAA CATGTTGCCA TTTTTACATT TACCATTTTA CATTCTTACC AGCAATGATT GATAGTTCCA GTTGCTCCAT ACCCTTGCTG ACCATTCCAA TAGATGTATT GTGTTATCTC ATTGTAGTTC TAATTTGTAT TTCCCTAGTG ATTAATGATG TTTAACATCT TTTCATGCAC 169200 CTATTGGCTA TATGTATATC TTCTTTAGCA AAATATATGT TGTTATTTGA AGAGCGGAAG 169260 TTTTACATTT TGATGAAGTC TAATTTATTG ATTTTTTTT TCTTAGATGG CTCATGCTTT TTGTGTTATC TAAAAAAAAT TTGCCTTCTT CATGGTCACA AAGACTTTCT CCTATGTTTT 169380 CTTTTGGAAG CTTTATATTT TTAGTTTTTA TGTTTATGTT TAAGACCCAT TTCTAGTTAC 169440 AATTTGTGTG ATTTTTTGGA AGGGTCAAGG TTCATTTTCT TTTCCATAAG AATGTACAGT 169500 TGTTCTAGCA CCCTTGTTAA AAAGACTTTC CTTTCCCCAT TGAACTACTT TGTCAAAAAT CAACTGAGCA TATATGGGCA TCATGAATTT TAATCCTGTT AGAACTGAAT GTTCCCAAGG 169620 CAGGCCATGC CCATGACTGA CCTCCTTTCC TTGGATTGCC TACAAAACAG ATAAAGCTAA TCTCGCTCTG TCACCCAGGC TGGAGTGCAG TGGCGTGATC CCAGCTCACT GCAATCTCTG CCTCCTGGGT TCAAGTGATT CTCCTGCCTC AGCCTCCCGA GGGGCTGGGA TTGTAGGCGT 169860 GCACCACTAT GCCCATCTAA TTTTTGTATT TTTAGTAGAG ATAGGGTTTT GCCATTTTGG 169920 CCAGACTGTC TTGAACTCCT GACCTCAGGT GATCTGCCTG CCTCGGCCTC CCACAGTTTT GTGATTATAG GCATGAGCCA CCGTGCCCGG CCTTAACCTT TGTTTTCTTA CACAACACAC TACGTGATGT TTTCCACATG CATGGGTCAT TTGCTTCATT TACGTACAAA TGCATAAGCA 170100 ATATACTGTG TGGTGTGAGT TTGTGATGGG AAAAGGAAGA AGTTTTGCGG ATACTACACT GGCTTCCTGC TATCTGTCTG TGTGAATGGC TATGGACTTT GTCTCTATT TGTTCGCTTA 170220 GCGCAGATAT GATCAGCTTA CAACTTAAGA TTCTAGAGAA AGAGGGTCAT ATCTGTAAAG 170280 CACTCTGAGC ATGTGTGAAG TTTAATCAAT AGCATATGAG GTTACAGCAA ATTCACTATC 170340 TTTGTTTCTT CAGCTATAGA ATGGCATGAG GATTCATCTC AATTTAGTTC AATTCTGTTC 170400 AGAACCATGA GCTAGCTGTT CATGGAAGGA AAGCCCACCT GATTGTGGCC AGGGAAGGAG AAACAACACT TTAACCAGGT TGATTTGGTT CTCACAGACA CCATTGGCAT GTGACATCTG 170520 GAACAGACCA TGCCTGGTCT CTGTTCGTAT CACTTACTAT TCAGCTCAAT ATTGGTCTGA 170580 ATATTCTTTA GACTGACTGA AATGAAAAGG AACTGTTGTG TAACCATCCA TAATTCCAGC 170640 CTGTAGACCT GGGCTGTATC TCTATGCCCT GCCTGGCACA GACCCCACCT CCTGCTCCTT 170700 CTCCCTCACC ACCAGTCAAT CCTTGTCCTA ATGAACAGGG AGGGCAACCC TGAATGGGGA 170760 GTGGAGGGAA GAGATGTCAT GAGATGGCAA CGTGCACCCT GAAGTGAGGA TGAAGGCTAT 170820 GTGAATGTTG TAGGCTGACA GCCGGGCATA GTGGCCCCGT TGCCATGGCG ATGGAGGCAT 170880 GTTGATGCGA AGTGTCTGCA CAGCTCCTAG GATTTTTAAC AGCAGCTGGG CAGAGCCTCG 170940 GCGTCCCTGA ATTGTTGCCC CCCTGAGTCA CTGCTTGGCC CCAGCTGTCC TGATCTCTGT 171000 TGACAAATGG TTGTCCTTCA CAGTCAAACT ACTAACAGTA CTCTAATTAA TGAATGTGCT 171060 AATTATTCTT GCCTACTCCC AGCATATTTG TCTAACTAAC CTGTCACACA CAGATCAGTG 171120 CAGCATATGC ATAATTACGG AGAGCGCTGG GAGCAGGGGA TGGGTGGGAG AGGGGTGGGC 171180 TCGCAGCCCT GTCGCTGTGG GATATTTCTT GTAAAGTTAC CTTTGCTAAC GGTCAGATGT CGTGGGGATA TGTTATTTCC CGTGAAGTGT ATATGTCTTC CTTTCTTTCC TTTCTAAGAA 171300 TCTCTCTTCA GGGCTGAGGG GCCATTGCTC AGTGCTTTAG CCTGTGAGGG GATTGCCAGG 171360 TACAAATGCA GAAGGACCAG GGAGCCCAGG TTCTGAAGAC GATTCCGGTA GCAGCACGTA 171420

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GGGTGATTAA AACTCCAGAC TTTAAAGCCA GACCGGCCTG GGCTTGAACC CTTGTTCTGC 171480 TCCTTGCTAT GTGGGTCTTT GCCTTGACCA CATTTTTTTT TTTTTTTAA GACAGGATCT 171540 CCCTCTCTG CCCAGGCTGT AATGCAGTGT TGCGATCACA GCTCACTGAA GCCTCCATCT 171600 CTACAGCCTC AAGCGATCCT CCTGCCTCAG CCCCGAGTAG CTGGGACTAC AGGTCTGTGC 171660 CACCACGTCC AGCTAATTTA CTTTTGTAGA GTTGGGGGTC TTGCTATGTT GCCCAGGCTG 171720 TTCTCCAACT CCTGGACTCA AGCCATCCTC TAGCCTCGGC CTTCCAAAGT GCTGGGACTA 171780 TAGGCGTGAG CCACGGTGCC AGGCCCTTGA CCACATTTTT, AACCCCTCTG AACCTCAGTT 171840 TCACTTTCTG GGCAATGGGA GGGGGGTAAT TTGTCCCTCA GAGGGTTGCA CTGAGGGGCA 171900 AATGTGAGGC TCTGGGTACA ATGCCCAGTA CAGACTAGGT CCCCACGACA CAGCCGCTCA 171960 GCGGCTCCGG ATTCTGGGCT GCTCTGGACT GCGGCCAGGC GGTCTTCTGC GGGAATCCGG 172020 GCAGGCAGGG CGGGCTGCGC TCCCCTCCCC GGCTCTCCCG GTGCCCCTTG TCTTTTTGTT 172080 CTGTCTCAGC AGCTCTCTAT TAAGATGAAT GGCATTTCCA AAGGCTTCAC CTCTGATAAG 172140 TGTTCCTCTG CAGCTGCAGC CAGAATCTTA ATGTGCGCGC TGTAATTTAA TGGCCGTCTC 172200 GGCTATTAAC ACGCTCTTCT CGGGTGAAGT GGACTCCCTC CATCCCCGGG CCTCTGCACG 172260 TGCTCTGCGC GCTGGCTGGG GGTGACTCCA AGGAGCTCAG AGCGGGGTGC CCGGCACCTC 172320 TCGCCAGGCG CCTTTCGACC TTCTAAAGCG CGAATGGCTG GACTTTTCTC CCATGTGTGG 172380 GGCCCCAGAA GGTGTGGGGC CCCAGAAGGT GTGGGGTCCC TGCGTTCCAC GGAGCCCGGA 172440 AGGTTTCCAG TGATGGTGGG GGCTGACCAC GTTGGTCCCC GTGGGTGCTG TTTTCATGTG 172500 CCGCCAGATT GGGATGAGTT TAAAAGACAG AAGCGTGTAG GATAGAGAAA CTTCTTTAAA 172560 AACTGGAAAT TTTAATCTGG GGATTATAAC TATTGGACAG TCAAGTGCAA GAGTGAATAC 172620 ACTTCTCACT CCCTCCCC AATTTTTATT TGCGGGATTA GTCAGTCCCC CTCTGCCACA 172680 TGATAATTGT GAGAACTACC AGGGTCTTCA TTCTCCTGCC ATCTGGTTGA CCTCTCCAAG AATGGACACC CGGGCAGCCT GGGCCAATGA GGCTGTCCTA AGAGTTTAGA TGAGAGAAGT 172800 CAGTCTTTGA CAGGTGATGG AAGCTGTAAA ATGTAAAACT CCACAGTTGG TGAAGATGTC 172860 TCCAGGAAAC AGGTCTGCAG AGAGAATACG TTTGACATGC TAAGAGAAGC TGAGAGAGAG 172920 CGAGAGGAGA GATTGGAAGA AAGACAGAGA CAGAGGTAGA GAGAAGGGAA AGAGAGAGA 172980 AAAGGGACAG AAGAGAGAG AAAAAGAGGG GGCCGGGCGC GGTGGCTCAC GCCTGTAATC 173040 TCAGCACTTT GGGAGGCCGA GGCGGCAGA TCACGAGGTC AGGAGATCGA GACCATCCCG 173100 GCTAACACGG TGAAACCCCC GTCTCTACTA AAAAATATAA AAAAAATTAG CCAGGCGTGG 173160 TGGTGGGTGC CTGTAGTCCC AGCTACTGAG GAGGCTGAGA CAGGAGAATG GCGTGAACCC 173220 GGGAGGCAGA GCTTGCAGTG AGCTGAGATC GCGCCACTGC ACTCCAGCCT GGGCAACAGA 173280 AGAAAGCTCT CTAGCTCCAA GGCCTAACCA CATCTCTGTT CTTTTCAACT TCAGCTGTCA 173400 GATTTTTAGA CTCTTTGAGT GAATAAATTC TCCTTTTTGC TTAAACTAGT TTGAGCTAAG 173460 TTTCTATTGC TTGCAACTGG AATACTTTGT AAGAGGACTG GCCTTCATTT CTGATGCATT 173520 GTCACTAGGA TGTAAGTGTT AGAAGAGCTA ACGCTTTATG GGGTTCAAAC TCCTTGGCTA 173580 CCAAAACCTA AACATCCCCT GAAACTTACC AAACTGCAGG TATGAATTGG ATCTCACTAA 173640 GGTGAATATA CAAATCTTGC AAGTGCTGAG CCCTAACCAA TCTTGTAATA ACTCTGTGGT AGTTAATTTT ATGTCAAATT GATTGAGCTA AAAAATGCCC AGGTAGCTGG TAAAATGTTT 173760 TTTTCTGGGT GTGTTAGGGA GGGTGTTTCT GAAAGAGATC AGCACTGGAA TCAGCGGACT 173820 AAGTAAAGAA TTCCCACCCT CACCAATATG GTGGGTGTCA TCAATCCACT GAGGGCCTGA 173880 ATAGAACAAA AAGCGGCAG AAGGGCAAAT TCCCTCTTCT TCTTGAGCTG GGCCATCCAT 173940 CTTCTCCTGC CCTTGGACAC TGGAGCCCCT TGTTCTCCAG CTTTTGGATT CAGACTGGGT 174000 CTTGCACCAT TGCCCTCCAT CTTCTCCTGC CCTTGGACAC TGGAGCCCCT TGTTCTCCAG 174060

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CTTTTGGATT CAGACTGGGT CTTGCACCAT TGCCCTCCTT GATGCTCAGG CCTTTGAATG 174120 CAGACTGGTC TCCACCAGCA GCTTTTCTGA GTCTCCAGCT TGCAGATGGC AAACCATGAA 174180 ACTTCATGGT GTCCATGAGC ATGTGAACCA ATTTCTATTA TAAATCTGCA ATATATAT 174240 ATGAGGAGAC TTATTTATAT ATTGGTTCAG TTTCTCTGGA GAGCCTTGGC TAATATAAAG 174300 TCTATACTCT ACAAAGTGCC CTAGGTACTC AGGGAGTACC CAAGTGTGTC ATGACCAGCC 174360 CGACAGCCCT GGCTGCTGGC TTCCCCGCAC ACACTCTGC ACGCTGCCTT CATCAGCCTT TCTCTCTCAG CTGAACCGAG GGCATTGAAG CGGCCTCTG GCACTGTACC TATGAGGGAG 174480 CAATATCTTC CCCTACACTG ACCTCTTCCG TGCCGAGATG CAGCCCTCCC TGCTGCCACT 174540 AGTTACAGTG GTCCATGTTC CCTTTCAAAG TGAAGTTTTG ATAAAAGCAC CTCTTAACCA 174600 ATGCCAAATA GCTAAGTCTG GGACAAAGAT TGCAGGTATT TTGCATTTTC CATGTAACCT 174660 CAGAGGGATT GCCATTCACA CTGATCTGAG CTGCAGAATA CCAGGCAGCC ACCTCACCCA 174720 CCCAGCAGGT CCACTCTTAT ACTTTCTCAG AAAGCACAGC CACTCTACTC TTATTCAGTT 174780 GAAAAGAATT TCCAGGAAGG TGTTTCTGCG ATTGCCTCAG AAAAGTCAGT TCCCTTTGGG 174840 AATTTCCCTT AGGGATCATC TGTAACTCCA TTTCTGCCTT TTACCTGAAT TCTTTGGTTT 174900 GGTTTGAATT CTTTGGTTTA ATTTATGAAT TCCCTTTATT ACTTTTCTCT GAAGAAATGG 174960 AGATATCAGC TGTCCCTCCC CACTGCCATT TATTCCTTCC TTCATTCAAA CCTTATGTGG 175020 CTGCTACTTA CCGTGTGTTA AGTGTTCACT TTTTTTCTTG GAATTCAAAA AAAGAAGGAC 175080 AGTATTTGGG GCACAGATCT TTTGGTGTTC TATACATTTT TTTAAAGTTT CATTTTACAT 175140 TTGTGTGTGC GTGTGTGTGT GTGTGTGAGA CAGTCTTGCT CTGTTGCCCA GGCTGGAGTG CAGTGGCATA ATCATTGGCT CACTGTAGCC TCAAAGTCCT GGGCCCAAGC AATCTTCCCA 175260 CCTCAGCCAC CCAAAATGCT GGGGTTACAG GTTTATGCCA CTCTGTCTGA CCTGAAAGTT TTGGGTTTAC TTTCCCTTCT TTCTCTTTGC TGAAGTCAGA GATGATGGCA GCTTCCAGAT 175380 TCTCTGGTGC CTGTGCTGGG CTCGTGCTGG TCATGGTCTT GGGTCCAGGA TTCATTCTGG 175440 AGACTCTCAG GGAAGTTTCC CATGACAAGG AAATGTAGGA GAGTGTGCTG GCTTTGCGTG 175500 CTCCTCTGCC AAGCCCTGCT TCTCCTGGTG GGACACACTG AACCACAGCC AGGGCATTTT 175560 GGTGGTTAGT TAAAAAAAA AAAAAAAAAA AAAAAAGGAA GAAGAAGGCA CTGTGTAATT 175620 GTGCCGGGGA TCTTCAGAAA TTGTAATGAT GAAAGAGTGC AAGCTCTCAC TTCCCCTTCC 175680 TGTACAGGGC AGGTTGTGCA GCTGGAGGCA GAGCAGTCCT CTCTGGGGAG CCTGAAGCAA 175740 ACATGGATCA AGAAACTGTA GGCAATGTTG TCCTGTTGGC CATCGTCACC CTCATCAGCG 175800 TGGTCCAGAA TGGTAAGGAA AGCCCTTCAC TCAGGGAAGA ACAGAAGGGG AGATTTTCTT 175860 TGATGGTTGT TTGGAAGTCA GGCTTAAACA ATTGTGTCTG TGTGTGCGCA TGCACAAACA 175920 CTTTTACCTT ATCTTTATTT TCTTCTTTTT ATTTGAATGT ATAGGGTTGT GTGTATTTCT 175980 GTGTAAATTT GGGGTTTTCC TCCTCTTAGT CTTTCACTTT TGTGGTGATT ACCAGTCCCA 176040 TTTTTAGAGC CAGGGCTGCA ACTTGAAGGT TTTGCTAAAA CCCTCACCGA AGTGTCTATG ATCAGCATTT TAACTATTAA TTAATGTGGC CAGGCAAGGG GTGGAAGGTG AGAAGACTAG 176160 AAAGGGAACA TGATATACAC ATTTACTCAG ATACTGGGCT TTTCTAACAT CTGCAGTGCA 176220 ATTGAAGTTA CCAGTCATCT GCAGTCTAAA AAGAAAGTGA TTTTGGGAGG TGCGTAGAAA AAATCATCTT ATTATTTTC CTCTATATTA CTTTTTTCTT TTTTTCTCCT GAAGAAACTT 176340 TTTTTTTGG TGATACCTTC TTTTTCTCTA GCACGTATAA TTTTGGAAGC ATTTTTCATA 176400 TGCAGTGTAT ACTTCAGAAA GAGAGAGAGA GAGAGGAAAA TTGTCCTGTT CAGCGTTTGC ATTTCCATTA TTCCTGCTAT TAGTTAAAAA CAACAACAAC AACAAAAAAC AAGCAGGATA 176520 CCTAGATCTG GAAAAGGGAG AATTGTGTAG AGCTGTCTTC CTAAAGTTCT GAGTTAGGGC TGCCTCAGAC CACTTTCATA ACTATCTCCA GTGGCTTTGT GTTTTATATT TATTAAGATA 176640 GAGAAAAAA GAGTAATTAC TAAGGGCAGC TGCTGTAGCT TTATGGTGAT TACTGAACAT 176700

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TGACATGCTG TCACGTTTTT GGAACTTTGA GTATTTAATC ACTTTGGGAT ATTCTATTTT CCCCCATCTT GAGTGTGGAC AGATGCTGGT GATGTAGCCT TCTGGGCACA GAGCAAGCCT 176820 CCCCTCAGC CTCTGCACCA GAAAGGCTCA GCTTCACACA CTCCAAGTAT GTTTTCTACA 176880 AGAACTACAC TTTGTGGCTT TCTGACCCAA ACATTTTTAT ACTAAATTAC ACACAACAAA 176940 GTTGTAGCTC AGAGAGGGAA CAAATGGCTT ATTTAGGCCA CCATTTTCTT GAGCCATTAT 177000 GATTTCACAC AGGGCTCCCT TGGCCCTGTA AATTGGCAAG GATTCCATTA TTCAACCCGC 177060 ATACATGTAC AGAGACCCTG CTCTGGCCCA GATAGTATTC TGGGTACAGG CGGATAGAGC 177120 AGGAAACAAA ACAGCTACAG TGATGGACAG GTCAGCCTGC AGCAATGCCT GCAGTCTCTG CAAAGGTAGC TGTATGGGTG GGCAGGTGGC TAGCACTTAT TCAGCTCTGG AAGGATCTCC CCTCTGGCCT CTCCCCTGAC ACCCATCAAT AAAACTGAGG AGCATCGGTG GACAGGGGAC 177300 CTTGTGCCCC CTCCCTGCCT GTGCAGTTGG GGCTGAACCC AGCTACGAAG TTTGAGCTCA 177360 CTCTCTCAG CTCCCTCTCA ATTCAGAGCT GAACTGTGGG AAGCTTCAGA GCTCTCTGTT TCAAGGACAG GTTCTCCTCA CCTCTCCTAA TGGAGGTGCA CCAGGGAACT GGCCCTGCTC 177480 TGCCCAGGGC TTTCTCCTGG ACTTTGCCAT CATGGTCTAG CAAACCCTGT TCAGATTGAG 177540 GTGAGTGGTG AGATTTCGAA TTCTTTTTGA CAGATAGGAT TAAGTCTTCT TCTGTGGGAC 177600 177660 AAGTGGGAGG TAGAGGTAAG ATTAAAGATG GCCAAATGTC TGAGTCCTGA CAGCCACAAT ATGGAGATCT AGACTTTTTA CAGACCACAG GGCACAGGGG CCTCACTAAC AGAGTTCCCG 177720 GAAGTGATGA GTGTGCTGGG GGCTTCCTGG TTGAAGAGAC ACTAGAATGG ACCAGCTGGG 177780 AGCTAATTTT TTGGGCTGGA GTGTGATGGC CTGCACATCA CTGCCTCTGT CCCTCCATTG 177840 TCACAGCTGC CCCTTAGGAG CCAGCTGAGG CAATTTGTGG TCAGAGTGAC TTTGCACAGT 177900 TGTCCTGCCT GTGTTCAGGA AGGGAGTTTC TGTGGTCCCT TTGAAACCAC AGAAGAGCCC 177960 CTCGTATAGC TCTCAATGGA GGGGGCAAAA CATTCAAATA ACTCAGGAGA TAACACAACT 178020 ATTTGTTTTT AACTGTGAGT TTTTAGGCAA TCACAAAGAT CCAGATGTAT GTCCAAGCCT 178080 CTCTTTGCAA TTCTAATTAA CCTCAATGTT GCAACCATAG ACCTACCTTA CAGAGTTCAA 178140 AAAAATATGC AAAAACCCTG CCTTTCTTCT TCCTCATACC CCAAAATGCC ATTCTGAACA 178200 TTTCCTGTTA GTTAAAAAAA GATTTCCATG GTGTTACCAG GCACTGTACA CAGTCTGTGT 178260 CCCAAGACAA GGAGGTACAG TTCCACATGC GCCCATGACT GGGTTGGGCT CTGCACTCTC TCTATACTTT GAGAGCCTGA TTTTCTGTGA TTGGGCAGAG CTGGCCCACC TGGTGCAATG TCCTCCTCTG CCTTTCAAAC ATGTTTTAGT CATCAAGATC TTCAAATTTG TAACCCTTTC 178440 CAGCTTGATC CAGCAGAATG CAGATTTGGA AAAACAGAAC GAGTTTAAAA TACATGATTC 178500 TAAGAAACCT GGACCAGAAC TATCAAAACT TGGTTTCCCA GAGAATATAG CAAATGGGCT CAGCAAGGAG ACAGGAGTTG GGCTCAAATC TGTCTCCCCA GTTTGGGGCT TAGGGCAAGT 178680 TTTAATTACA CAGACGCATT TCTTATGAGT AGCAGGCAGA GAGCCTCCAA CTTCTTCTGC 178740 CTAGGTACCA GCAGCTTAGA CATGATGCAA ACCTGGGAAG CACATACTGT ATTTGGAGAA 178800 AGTGATTGGG AAGAAATGTG AGCTGAGGGG AGGGGCTCAG TGCCCCTGAG CTACACTTAG 178860 TGATGGCAGA GGAAGGATGT CCTCCCGCAG GAGGCTGTTC CACATCTGCT CTGGTTGTAG 178920 178980 GGGGAGCTGG CAGGCATTAG CAGCGGCCTC TTTCCCCCAA GAGAGGCAGC CTCCTCCAAG 179040 TTTTGGCGAC ATTATGGCCC TGCAATCATA AGGGTTTGTG AGCATAGTGC TAAGGAGGGA AATGGAGCTG CTGTTACTAG TTCCACCCCA ACACACACAC ACACACTCAC AAGAAACCTC 179100 ACAAGCACCG TATTGGAAGA CTTTGCCATC CAACCTGGGA TTTGACAGGC TCTAGAAGCA 179160 GAATCATAGA CTCATGAAGT TCCCCCAAAG CAGGAATCTT CCTTACAGTA ACCCCCAACC 179220 ACCCCCTCC ACCGCCTCCA CCGGCTGCTT CTTCCTGAAC ACTGCAGTGT TTGGAAAACT 179280 CACAAACTTC CAAGCTTGCC TTTCCTATTG TTGCATGGAT TGAAAGCTTG CGTTGTGTGA 179340

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AGAATGCCC TTCCTGCTGT GCTTAGTTTT ATCTCATATA ATCTTTGCAC CATTTAATCC 179400 TTGCACTCAC CCACTCATGC AACTGCCTTT GCAGAGACTG GAGGGGCCGC TGTAGGCTGA 179460 CCTTTCCTTC ACTGTACCTA TTTTGTTCCC TGCTTTATTC CCCTGCACCC AGGACACTGC 179520 CTGGCACAAA GACAGGTCTT TATAAGTGTA TGCAAGTGAA TAAAGATATA TATATTATTA 179580 TTGTTATTTT TGAGACAGTT TCACTCTGTC ACCCAGGCTG GAGTGCAGTA GCGCAATCTC AGCTGACTGC AACCTCTGCC TCCCAGGCTC AAGTGATTCT CATGTCTCAG CCTCCTGAGT AGCTAGGACT ACAAGCATGT GCCACCACGC CCAGCTAATT TTTGTATTTT TAGTAAGGAC AGGGTTTCAC CATGTTGGCC AGGTTGGCCT CCAACTCCTG ACCTCAAGTC ATCCTCCTGC 179820 CTCGACCTCC CAAAGTGCTG GGATTACAGG CATGAAACCA GCCTAGAAAT ACATACTATT ATTTATTCTT GTTTTACAGA TAAGCAAAGT GAGTCATGGA GAATTTGGTT GAAAGTCCCA 179940 AGGTCAGGAG TCGTGAAGCT GGGATTAAAA CCTAATCATC TGACTTTAGA GAGTAGACAC 180000 TTGCTCCATG CATATTGCCT CCAATTCATT CATTCAAGCA CTCCCTGCTC AAGAAGTTCT 180060 TTCTTATGTT GAGCTGAAAT CTGCAGCCCT ATGCGTTTTA CCCAGCAGTC CTGGTGCTGT 180120 TCCCTAAAAT CACTTAGACT GTGCCTGCTC TTTCTGTGTT TACAGTGTCA GCTGTAATAT 180180 CCCCTCTTC GGCCTAACGT TTCTGAAGTC CCTTGCCACT GGGTCTCCTC TCCTCTTCCT 180240 GTGTTCTTTC TAAGAACACC TATGCAGATA GGTGTCTTCT GTACAGGGAA GCTGTTCCTG 180300 AGATCCGGGC ATCGACTCTG TTAGAATAAT CTACGTATGA GTTATTTTTT TGAGAACTAT 180360 GTGTCATTGC TGACTCATAT TAACTCTGTG GTTAACTAAA ATCTCAAGAT CTCTTTATGT 180420 TTGTTGAGAA ACTTATTTAA CTTCTCTGGC CCTCCGTTTC CTTCACTGAG CAGTGGAGTG 180480 ATTGATAACC TCCACCTGTG GTTGCTGAAG GTCTTGCACA AGATGATATA GTTAAAGTAG 180540 CTAGCAGTGC CCACGTACGG CGGATGCCTC ACAACGGTTT GCAGCCATCT CTCTATCTGT 180600 GTCTTTGTCT CTCTCACA CTGGTTTTGG CTTACTGTTA GCAGCTAGCC GAGATAAGTG 180660 TGTTTATGGT CTTTGCATGT ATTGTTTCTG TAGCATACTG GAGGATTACA AGAGGTTGGG GAGTGAGGG GCGGTGAGGA GTAGACAAAG GCAGCCAACT CTTCCAAGTT TAGCTTAGAA 180780 180840 TAAAGGATAG GGAAGATCTG TGCGTGTTTC CAGGATAAAG AAAAGGAGAG AATATGATAT 180900 TAAAGATTCT GGAAGTGGGA GAAGGAGCAA TGAAATACAG ACTTGAAGTC AGTGGCATGG 180960 ACAGGGTCAA GATCACAGTT AGAGGATGCA GCCTTAGAGA AAAGGAAGGG GCTCGGTTCT 181020 CTGAGCAAGG AGGGAAAGAA GAGAGGCAGA TGCAGAGAAG TACGGCACAT CGTGCTGCTG 181080 GTTGTAGAAA TAACCTCTGA CTTTTAATAA AGTCATCCCT CGGTATCCCT GGGGGATTAG 181140 TTCTATGACC TCCCTCGGAT GCCAAAATTC GTGGATGCTC AAGTCCCTGA TATAAAATGG 181200 TTTTTTTTT TTTTTGTGAG ATGGAGTCTT GCTCTGTCGC CCTGGCTGGA GTACAGTGGC 181320 TCGATCTTGG CTCACTGCAA GCTCCGCCTC CCGGGTTCAT GCCATTCTCC TGCCTCAGCC 181380 TACAGGTGCC TGCCACCACG CCCAGCTAAT TTTTTTTTTG TATTTTTTAG TAGAGACAGG 181440 GTTTCACCAT GTTAGCCAGG ATGGTCTCGA CACATCCTCC ATATACTTTA AGTAACCTCT 181500 AGATAATCTC TAGATTACTT GTTTTGTCTT TTTTTTTTT TTTTCTTTTT GAGATGGAGT 181560 TTCACTCTTG TCACCCAGGC TGGAGTGCAA TGGTGCAATC TCAGTTCACT GCAACCTCCG 181620 CCTCCTGGGT TCAAGCAATT CTCCTGTCTC AGCCTCCTGT GTAGCTAGGA TTACAGGCCC 181680 CTCCCACCC CCACCCCCA ACAACTGGCT AATTTTTGTA TTTTTAGTAG AGATGGGGTG 181740 TCACCACGTT GGCCTGGCTG GTCTTGAACT CCTGACCTCA GGTGATCTAC CCGCTTCAGC 181800 CTCCCAAAGT GATGGGATTA TAGGCATGAG CCACTGTGTG TGGCCTAGAT TACTTATAAT 181860 ACCTGATAGA ATGTAAATGC TATGTAAACA GTTGTTATAC TGTATTGTTA AAAGACAGTA 181920 ACAAGAAAA AAATCTGTAC ATGTTCAGTC CAGACAAATG GTTTTCTGTT TTTTTTTTT 18 1980

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TTTTTAATA TTTTTGGTCA GTGGTTGGTT GACTCCAGGA ATGCAGAACC CGCAGATATA 182040 GAAGGTTGAT TATGCGTTCA GAGGCAGGGA ATACCATCTT GGGTTCCAGA AAGAAAATGA TCAGCATTTT CTGTCATACT CTGGTAAAAA CAGATCTTTT GAATGGACAG GTGTATTAAA 182160 CCCTGTGGAG CTGGCTGGGC CTGGCGGCTC ACGCCTGTAA TCCCAGCACT TTGGGAGGCT 182220 GAGGCAGGTG GATCACGAGG TCAGGAGTTC GAGACCAGCC TGGCCAATAT GGTGAAACCC 182280 CAACTCTACT AAAAATACAA AAATTAGCCG GGCGTGATGA CGCATGCCTG TAGTCCCAGC 182340 TACTCGGGAG GCTGAGGCAG AAGAATCGCT TGAACCCTGG AGGTGGAGGT TGCAGTGAGC 182400 CGAGATCACG CCACTGCACT CCAGCCTGGG CAACAGAGTG AGACTCCGTA TCTAAAAAAA 182460 AAAAACAAAA ACCTGTGGAG CTGATGAAAT CCTGCAGGGA GCTTCACGGT GACAGCAAGA 182520 GGAGAAACAC ATCCCCATAT GCCCCGCAGA GTTTGAAGTC CCGGCTGCAC CTCTCCCCAG 182580 CAGCAGGTTG ACTCTGGAAA GTTGCAGCGT TCTTACCTAC AGAGTGGGAA CAGTACTACC 182640 CATTGCACAG AGTGGGTGCA AAGCTCTGTG ACGGAATACA TGGCAAGTGC CCACCACATT 182700 GCCTGGGATG AGGTGGGCCC TTCCTTTACG TAAGAGAGCC CTACAGATAC ACTCAAAGTG 182760 GGCACATTCC TACAGAAGGA GTGTTATTTG TGTAGAAAAG AAAAACATGA AAGGCTTTTA 182820 TTCCTATACA CAATAAAGCA CCCCTTTAAT GTCTTTTTGA GGAGGATAAT ATGAAATTGA 182880 TGAAAAGGAA CCCTGTGGTT GGATCCCTGA CAATCACATG TATCCCTTTT TTCACTCTTG AAAAAGGAGT AAAGGAATAA AATAGAAGGG GAGAGGGGGC AGAGAGACCT TCACCGCCCC 183000 CCCCCACCC CCCATCATCC AATCTATAGT CAAACCCTCC AGACTGTGTC TCCTTGGCAT 183060 CTCTGACACC CCCACCGCCA CCACCCCAGT CAATTCCTAT CTTATCCCCC TATCCTGGAT 183120 CTGATTCTGC TAAGTTCCTG CCACACTAAA GACAGGGTGG CTTTCTGATG ACAACATTCC 183180 TCTGCTTAAA CCTGTCAGTA ATTCCTTGTT GCTCTCAGAC GGAACTAAGT TCTGAATTTC 183240 TTCACACGGC TCTCAGCAAG GTCACAGTCA CCCTGCTAGG CCCCAGGGGC AAATCTCAAT 183300 GGTCATCTTC TTGAAGACCT GGCTCAGTTA TTTCTTTCTC ATTGAGGCTC ACGACCCCAC 183360 CTTCTTGCAT GCCTCAAACG GCCCCTTACC ATGCTCTTCT TTCGCCCATA GCTCAGCACA 183420 CCATATCATT TTAATTTATG TATTTTGCTT AATGTGGATG ATCTGTCTCC TCCTCTGCTG 183480 TCCTCACCAG AGCATCAGTT CCTCAAACCA AGGCTCTTTG TTTTGTTCTT GGATGCAAGC 183540 TAAATGTCTG GCATGTGGCA AATGGTCATA GATACATGTC ATTGAAAGAA TGATTCATCA 183600 CCTCCCTCTT TGGCCTTGTC TGTGGTTCTA CCAAATCCCA TTCCCTCCCC AGTGCCCTCC 183660 ATTCCCCCTC CTTGGCTGAA CATTCTGAAC CACAGACAGT TCTTTACCCT GAACCTTTGC 183720 ATATTTTGTT CTCTTAGCTT AGAGCGGCCC CTCTCCCTCC GTCTGCTTGG CTAATTTCTA 183780 CTTGTTCTTC AGATTTTATC TTAGATGTCA TTCCCTCAAG GAATCCTTCT GTGACTCAAC 183840 ATGGAATTAA GTTGCCTCCT TTGACCCTGA AAGCACCATG TACTCAATCT CATCTTGGCA TGACTCACTT TGCTGTGTG AATGTCTGCT TTCCTTGTTT GTCTATTCCT TTAGACTGTA 183960 AGATCCTAGA AAGTGGGGGC CGTGCCTTGC TCATGACTGT GTTTCTAACA CCAAACACAG 184020 TGTTCAGTAG AGAGCAGCTG CTGAGTACGT TTCTGCTAAA TGACAGTTGA TGGAGGACAT 184080 TTAGGGTTGC TTGGAGGTCA AGTCAAGGAG GCATTTAACA TTČTAGTAAA ACAAGGAAGT 184140 AACAGGCTCC TGAACATGCC CACAATGAAC CAGATGCAAA CCTTTTCCCT TGGCAGGATT 184200 CTTTGCCCAT AAAGTGGAGC ACGAAAGCAG GACCCAGAAT GGGAGGAGCT TCCAGAGGAC 184260 CGGAACACTT GCCTTTGAGC GGGTCTACAC TGCCAAGTGA GTCCTAACCC TGATGTTGCT 184320 AATAAGTGGG GGCATGGGCA GGGGGGCCTC CTTCTAGGAG TGATGACCAC CCTTAATACC 184380 ACATGTCTGT CTGAGCCAAG TTTCTGAGCG CCAGGGAGGT GAGGAAGGTT GGACTTCACC 184440 AGAGAGGCTT TGTGGACACC CTTTATCATC TTAGTGAGTG CTAGTGTCAA AACAAAGGGA 184500 GTGGGGATAT GGGGCACATT GGTGGAGGGA GGTGTGATCT CTGCAGCTTC AGAAAGATCT 184560 GAAAGAGTCA TTTGGTTAGA GAAGTTGACC TATTTCCTGT GGGGTTAGAC CAGGGTTGCT 184620

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ACTGTGAACA CCAGCCATGA CTCACCAGTC ACCTTCAGAA GCCACAGGCA GGACATGCTG ACGACAGCCT TCAACTCACC CACCCCTTGC TCCCCTGCGG GTGGAAGTCT GGAGGTGACA CCACTGCATT TTCTAACACG GGGGCTCCTT GAGCAACTAG AACAAGAACA GAAAGAATGG 184800 GGACATTAGC AGGTGCTTTC CCCCTCTCTC ATTCTTTTCT TTGAATAAAA AGGTTGTTTG AAAACACCTG AGCGGCTCCT AAAGATGGGT GCAATCTATT CGGGATGCAA ATCCGAATGA 184920 ATGTTATTCA AATGCTCCTC TCTTCTTTAT GCAGAGTGTA TTTCAAGGCT CAGCCAGTGG 184980 CAGGCATGCT GGGGACTATG GACTACGGAC TAGGGGCCTG TCACAGAGGA AGGCCTCATG 185040 CTAGAGAGCT AAGGGAGGAG CTGGCCTTCA GTTCCATCCC AGGAGCAACT TTGATGTTCC 185100 185160 CAGAGATCCT TCCAAAGGGG GAGTCATGGT CACCCAAGAA AAATGTATTC AGAATGCCAA GAATGGTGCA AACTCAGGAC AAAGATTCAC ACTGCAGGGT TGGAGTCCCT GGGCTTGCTG 185220 CTGGCACCAT GGGAGGGAGG GTCCCCTTCA GGGGTACCGT TGGTTTCCTG TGAATTAAAC 185280 TGGCTTCAAG GGATCTCGAC TGAACAGGCC TATATCACAC TCACTGATAT ACTCTCTCTT 185340 CAGTCCTTCT CCTCATCTAG GTATTTTTAA TTGTTTCAGT GAGGTGTAGG CATGAGGGGA 185400 TTGGAGGGGG CATCTCCTCC ATTGCAGTTT TTCATTGGCT GCTTTGCTCC CTCAGCTCCG 185460 AAATCGCTGG GCCACTCTCG AACGCATTAG TACGGTAGTC ACAGGTTGAT TGCCTGGCCC 185520 CTTGCCCTCT GTGGGCATTT TCCCTTTCAG ACAGCCCCTG AGTACTCACA GTGCTGCTAC 185580 AGTGGGCCAC CTAGATCTCC CTCTTTCTCC ATGCTCCCAC GTGCTCTGGG CTCCACTCCC 185640 185700 TTCTCCCAAG CACTTCTGTC CAGGGCTATT CCAGCAGTCT GACCTCAAGG AAATCCTTTG CTAAACTGAT TATAGAGAGG TTTCTATTTT AACATTTAGG TCTTCCATGT ATTAATTCTC 185760 AGAATCAATT TAAGATGTTT AAAGGTGTGA TTTAAGACAT TTTAAAACCA TTTGGAGGAG 185820 AGTACAGAAA TTATGTCACT TGCTGTCAGC CTCTTTGCAC CATCTGCAGA GAAAGATACT 185880 AGAGTCCCGC CTTGGACACA TCCACATGCA AGAGGTGCAA AGAAGGTGTC TTTGATGAGG 185940 CAAGGTCAAA ACTTCTCCCC AGACGAAATC CAAAGAAAGC ATTCCTACTA TGCTATATCA 186000 186060 GTTTGGAAG AAAACTTCT GCCAGGTGAC TGCATTCTCA CTGGTCACAT TGTGTTCCTA TGGACTCCTC AGCTCAACCA ATTTGGAGAA GTTATGGTGC AATTTCACCA TATCTGGTTA 186120 GAAGTTAAGT TTCCAATTTG CTGGCAATGA AGAAGAAATG GAGCAGGCCA GGCTGTGTAG 186180 TTTCTGCCAC GTGCCCCGG GAGTGAACAG CTCTGTTTGT AAGAAGCCAT GGTGCTTAGA 186240 CCTGGGCTCG CTAGTTGCCA GCCTCCAAAT TGCAGAAGTG CCCTTTGGTT GGTGGCTATG 186300 CTGTGTCACT TGGGAAGGTC GTTTGGAAGT TCCACAGTCG TTGTGGGGTG CCAGAGATTA 186360 AAAAGCGTAA GAGGAGAGTG GAAAGTGATT GTTGCTGCTT GGGCATCCCC ACCGTGTGGG 186420 TGCTGCAGCC CAGCTCTCAA AACCCATGGG TCTGTACACT CAACCTCCAT GAGAGGGAAG 186480 GAGAAGGATG AGGGAGGGGA GAGATAGCCA TGGAAAGGTA GGAACTAAGC AGGCAGGGTG 186540 186600 GAGAGTTTTC TGTAAGACAA AAACTGTCTG GACACTGCTG CGGTTCTGTT ACAAAGACCA CTTCCTCCCT GGGCCAGCAA CATATCTGTG TGCCTGTCTG GGTTGTAAAA AGGGTCAAAG 186660 ATCAATGCAG CAGGCAGCTA CATGCTGGCA AAAGCCAGAG GCAGCTGGTC TGTTTGCCTG 186720 TGCCAGGAAA CCACTGGGAA TGGGGTTGTG TGTTATTCTA GGAGAAAGTC GTCCCAGCAG 186780 CAGCTTCTCC AGGGGCATCC AAGAGCACTG AAAAGGGTTG CAAGATGACC CATGAGGCTG 186840 CAGGAAGAAA AGAACATGCA TTTAATCTTG CTATCTGAAA AGTAAGACAT GAAGCTTTCC 186900 TCATTTTTAA TATACACATG GACAGTAGTA TGTGTATATA GTTTATATGC AAATATACTT 186960 187020 GTTATAAGGT TGCATGCTCA AAATTTTTGG TTCATGGGGT GTGGGATCAT AAATGTTTAG GGACCATGGC TATCAAGGAA AAACAGCATG AAGGATAAAT GATACTGGTG GATTAAAAAG 187080 ACAGATGCAT GTATTTTTAG CATAAAACAC AACTGCTGAC TGATACAGAT AGCTCAAGAT 187140 TCTGGGGCAG CTGCTGAACA GATACACTAG CCAGTGTGGC TCATCGGCTC AGACTTGGCC 187200 TTAATTAATG GGCTGTCCCT CCACCCATCT CCCATGAGGG CAGAGCTGAG CCAGGGTTTG 187260

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AGAGCTAAAA GGAATTGGAC CTGGACTCTG TTCACGTGTA TATTTTAATT CTAATTAATT 187320 CATTCTTTTG AAAGACAGAG TCACACTCTG TTGCCTAGGC TGGAGTGCAG TGGCACGATC 187380 TTGGCTCACT GCAACCTCGG CCTCCCAGGT TCAAGTTATT CTCCTGCTTC AGCCTCCTGA 187440 GTAGCTGGGA TTATAGGCAC ATGCCCCCAT GCCTGACTAA TTTTTGTATT TTTAGTAGAG 187500 ACGGGGTTTC ACCATGTCAG GCTGGTCTTG AACTCCTGAC CTCAGGTTAT CCACCCGCCT 187560 TGGCCCTCA AAGTGTTGGA ATTACAGGTG TGAGCCACCG TGCCTGGCCT GTTCACATGT 187620 ATAAAACACA GTTTAATGTC CTATTCCCAG CCAATGAGCA TGGCTAGAGC AGCCTTGGTC 187680 AAAGTTTGGT TTTTGGAGAA AAATCCTTGT TAGCTGACCT AAGATTCCTC TTTGTGAGTG 187740 TAAGTAAGCA CAGGTTGCAG AGAGGAGAAG GGTCTCTGGA GAGGTGTAAT TTTCTAAATG GATTACAAGT TCATGGACTT TTAACAGGTG TTACAGGGGA TAACAAGTTC TTTATAGACA 187860 GACTTTTGAG GACGTTTAAG GGTATTCTGA TTCTTGGTTT TCTAAGAGGG GAATGTATTA 187920 TTTAACTACA GACACCCCTA CCGCCCACTT TTTGCAGAGT GTATCAAAAC ATGTTTTTGG 187980 AATACCACCC TCATGTCGCT TCTCCCTGCA TCTCTTATCT CTTGGTGTCC ATTCTAGACT 188040 CACTITCTTT CTGTTTTTTA TTTTTATTTT TTTTTGAGAT GGAGCTTCAC TCTGTCACCA 188100 GGCTGGAGTG CAGTGGTGCA ATCTTGGCTG ACTGCAACCT CTGCCTTCCG GGCTTAAGCA ATTTTTGTGC CTCAGCCTCC TGAGTAGCTG GGATTACAGC ATGCACCACC ATGTCCGGCT AATTTTTGTA TCTTTAGTAG AGACAGGGTT TCACTATGCT GGCCAGCCTG GTCTCAAACT 188280 CCTTACCTCA GGTGATCTGC CCGCCTCGGC CTCCCAGAGT GCTCAGATTA CAGACGTGAG CCACTGGTGC CTGGCCTAGA CTCACTTTCA AGTGGCATAG ACTTGTAAAA TTATTTAAAG 188400 GTGATAGGTC TACAATGATC CTGTCAATTA GTATTGACAC TATTATTAAT AAACTGTTAT 188460 TAATTATATT TACTTACTTT AAATTAATCC AAACTAATTA ACGGAACACT AAAGAGTTTC 188520 TATGTTTTAT TCCCAGAGGT GGAGAAAAT GAAAGGGAAT ATAGCAACGA ATTCTTTTCT 188580 CCATAAAAAC ATGAATAGTG CAGCACATCA AGTTGAACAT ACCACAGCAA ATTGTTGCAA 188640 GATCTGCTGA GTAGCTCCTA TTTAGACCTC AAGGAATGAG ACTCAAAATG GGTTCATCAG 188700 TTCTGTTTTG CAGAAAAAAT AGCGCAAAAT TTCTCAAAAG AAAATCCAGA ATAATAATAA 188760 TTTGTCAATA GGAAAGACAT TTCCACTGGG GGTTAAGAAG GAAGACATTG GAACAATGAT 188820 AGCCACCACT TATTGAATGC TTACTGTGAG CCAGGTGGCA CTTCACCTTG TTTCATTCTC 188880 ACAACAGTCT AGGGAAGTAA TTACTAATGT CTCCATCCAC CTCTTGTAGA TGAGCAAACT 188940 GAGGCTCATT GAGGCTAGGA AATGCACCCA CACTCACATA GCCCATAAGA GGCAGCCATG 189000 GCATTGGGCC CAGACCATGT GAACTTCAAA GACTACACGA GCAGCCACTG GGCAGCTGTC 189060 ATGGCTAAAG CCACTTGAAT TCAGCCCAGC AGCAACCCCC TCTCCAGGAG GGGCACATAA 189120 GCTTGCAGCT TTGGGTAGAA GCTGCACTTG AAGTCCTGGA TGGCGAGAGG GACTGGCTTG 189180 AGCCAGAGCC AGGAACAAGG CTCTGAGAAT ATTCTGGAAA TCCACAGGAG GAACCCATTT 189240 TCTTACAGCT GGGAGAATTT CATTCAACTC CAGGCTGACC ATGTTTTATT AGGAACGAAG 189300 GTGACTTGAA CTAATAGTCA GGAATGGTTG AATACGGACC CAATGTCAAA TCACTAGGCA 189360 GTTCACATTT CTAATGAGCA AATCCCTTAG ACAATTAAGA ATTTTTTTCC TTTTGCATAA 189420 CCCAGACAAA ATCGCTACTT AAAAACAAAC CAAAGACCCG AAACATGAGA AAGAGAAGGA 189480 AGCAGGGGAA ATCTTTGGTA CTAATAAGTT TTTAAACAAT AAGAGCACCA GATATTTTAC 189540 CCCATCAGAC ACAGAATGTT ATTCGAATAA CCAAAAAAGG AATTTTTTCT CTAAGTTTCT 189600 TGAACTGGAA AATGAATCAT ATTTTCTCAG TCCTGAGGCT GCAATTTTGT GCCTCTAGTA 189660 ACATATAAGA ATAGATGTGA TGCCAGTGCC CAGTAGCTGC TGCAATTGTT ACTTGGGGAC 189720 CTGTTTATTC ACTAAGCACT TCACCCCAGT GATAAATTTG TAGGGGCCTC CTGCCCTTTG 189780 GAGCTCCTAC CGTGTCCATT AGATCAGTGG AAATTCTGGG ATTCAGAGCA CTTTGCAAGG 189840 TCAGCAGGGG TCTGCTCTTT CTGTCCTGTT CCTGGTTTTT GGTTGTGCCT GGATTCCAGG 189900

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GTAGGTTTCT CATCTGTTAC CTTCATAGAC TTCTCCAGAA AAGGATCTTT TGACCATCAG AGGACCACGA AGATTCCATT GGTGAGGCGC AGATAACCTG ATCTCTCTGG GTTCTCTGCA 190020 GGGCACAGAT GAAGGGCTGG CCATTCCCAA GTTCTCAGTG GTACCACTGA GGCATGAGAC 190080 CCTAATGGTT TGCATGAGCA GTTTGAAAAT TGCATCTTTG TTTTTACCTA TATAATCACA TGAAACCCGT GGTTCTCAAA CGTCAGCAGG CATCAGCATC ACATGGAGGG CTTGTTAAAA 190200 CAGATTTCTG GGCCCCAACA CAGAGTTTTA AATTCTGAAG GCCTGAGGTG GGTGTGAACA 190260 TTTGCATTTC TAACATGTTC TCGATGCTGC TGCCGCCTCT GGTCCCGAGA GCATGCCTGG 190320 AGAACTGCCA CCTTCGACCA TGGACTGTGA GAATTCACAT GGACCTCAGA ATTATAATCA 190380 GTCTCTCAGT TTTACAGATA AGGAAACTAA ATCCAGAGAG ATTGTTTTGC CAATGGTGAA 190440 CAGCTGGTTA AAGTCAGGAT GGAGACTTTA ATCCTAGTCA AGTGACCTTT CCTCTGTATT 190500 TATTTCCCTC CCTTTTTATG CCTCTCAAGT CTAGTTACAC TGTTTTTCAT GGATGGGCAT 190560 ATTTATTGTC CTGATCTGGA CTGCAGACTT CTCAGGAGGA CACCTATGAT TTAATTTAGT 190620 ATAGTTGAAG AGTTAACAGA CATGGCTTTG GAGACAGACT GATTATGGTG TGAATCCCGG 190680 CTTTGCCACT CCCTAGCTGG ATGACCCTGA GCAAGTTATT CAGCTTCTCC AAGCCTGAGT 190740 TCCTTATTGG AAACATGAGA GCAATTGTGA TAGGCAGAAT AATGGCCCCC TCACCAATCA 190800 TGCCCACATC CTAATCCTAG GAACCTGTGA ATATGTTATG TTACATGGCA AGGGGAAATT 190860 CAGGCAGCTA GCCAGTTGGC CTTAAAATAA AGAGATTATC CTGGATGATC TGGGTAGGAC 190920 CTGATGTAAC CACAAGGGTC TTTTTAATGT GGAAGAAGGA GGCATAAGAG TAGATGTCAG 190980 AGTCATTCAA AATAAGAAAG ATTTGATGGG CCATCCCTGA CTTTCAGGTT GGAAGGAGGT 191040 TCTGAGTCAA GGAATACAGG TGACCTCTAG AAGCTGGAGA AGGCAAGGAA ATGGTTTCTC 191100 CCCTAGAAGT TCCAGAAGGA TTGCAGCCCT GCTAATATCT TGACTTTATA GCCCTTTGAG 191160 ATTTATTTTG GATTTCTGAC ATCCTGAACC ATAGTAAAAG GGTGTTFTTT GTTTTTTTGA 191220 GACAGAGTCT TGCTCTGTTG CCTGGGCTGG AGTGCAGTGG TGTGATCTTG GCTCGCTGCA 191280 ACCTCCGCCT CCCAGGTTCA AGTGATTCTC CTGCCTCAGC CTCCTGAGTA GCTGGGATTA 191340 CAGGTGCTTG CCACCACC TGGCTATTTT TTGTGTTTTT AGTAGAGACA GGGTTTCACC 191400 ATGTTGGCCA GGCTGGTCTT GAACTCCTGA CCTTGTGATC TGCCTGCCTC AGCCTCCCAA 191460 ATTGCTGGGA TTACAAGGCG TGTTGTTTTA AGCCACTCAG TTTGTGGCCA CTTGTTACAG 191520 CAGCAAGAGG AAACTCATAC AGTTATCATG TGAACTCACA GGAATATGGT GAGTTAAAAA 191580 GAGAGGAAGG GTGCAAAACA TCCACGGTAG AGTGAGAACT CTCCAGGGAG TGAGGACTGT 191640 GCCCAGCATA CAGTGATCAC CCTCTTAGTA AGCTAAGTTT CTGAGCACCA GCTTTTTTGA 191700 GTTGACTTTG TTGTCTTTAA CATTTGAAGA TCACCCTTCT TTGCTCAGCC TGGCTTGCAG 191760 ACCTGGGCTG ATTTGTGGAT CTGATAGAAA AGTTTCCTTA GTTGGGCTCT TCTCCCCGAC 191820 CACCCCATG CCAGTGTGGC CACATCCTCT GTCTGCATTG CTCACTCTTC AATTCCAAGA 191880 AGCGCAGGG CACCGCCAGG AACAGGAACC CTGCCAGAGG AATACATCAA GAAACCAAGT 191940 CTCCCTTACG CATCACCGTA GGAACAGAGT TAATGGATTA TGAACATGTG TTTGCTTTAT 192000 ACCATTGTTT GTTTCCCAGG TGGCAGCTGG CTGCCCCATC TTATTGGGTA GATGTAAGTG 192060 GAATTACGAA TGGGATTTAT GTTTCATGCA CGATGGTGAT TATTAACTTC AACTTTCAGG 192120 TAATTTTCAG ACCACATTGC ACTAACTTGG TCTCTGATTG TTTTTCTCCT TGTTTGTTTA 192180 TTCTGCAGCC AGAACTGTGT AGATGCGTAC CCCACTTTCC TCGCTGTGCT CTGGTCTGCG GGGCTACTTT GCAGCCAAGG TAACTCAGAC TTCCCTTTGT TCATTCTCCT TCTATAAAGT 192300 GCATCTCAAG GAGGTTCAAA GGGCAGGCTT TTTGTTGAAA GGACTTTGCC TGACCTCTGG CTCCCATCTG TGAAGCCCTG GAGAGGTGAG AGCCCTCGGG AGGCCGTGTT TCAGGCATGC 192420 TCTGCACCCG TGCAGAGCGC GTGTGATAAT GCATTGCTAA TGCTTGCTCC CTGGTGGCTG 192480 GCTGAGAGCT GCTGTGCTGA CAAGGGTGGT TTAAGGCTAA ATGTGACTCA GAATCCTTAA 192540

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GCAGTGTTAG TTCAGATACA AGGGCATTAT AAATGAGAGT GCCTGAGGGA TCTATTTTGG 192600 GACCGCTGTC ACTTGGCTCT TCTGCTAATA AGCTTCCAGT GTGGTGGCCC TCCTTCAGGC 192660 ATGTTTCCAC TGAGCCACGG GCTGGATGCC ACATCCCCGG CCTTCCCACA GTTATCAGCA 192720 GCCCACAGGC TTGACTTGAG CAAGTTGGAA AGACAAATCA ACTTCCAGAG TTGATTTAAC 192780 ATTGAGTGGA AATCAGTCAT ACTTTTGGTC CCCTTTCGGG GCCACGCCTG GCACTGTGCC 192840 TGGTGGCAGA TCGGCATGAA CTGGCCAGCT TCTGTGGCCC TGGAGGGCAC AGGCAGAAAG 192900 GCCACACTCA GTCCCATGAT GAACTGTTTA AGACTTATTG TTGTCTCCCC GCTCTGTAAA GTAGATAGAG TGGATTTTAT GTCCCTTATT ACCTTTCAGG ATACTTTGAC TCAGGGAGAT 193020 AAAGTAACTT GGGTACAGCT ACTCAGCTGG TGAAGAACAC AGGCAGAATG AGTGCCTGGG TCTTTTGACT TAAAATTCTG GATTTTTCAC AAAGATCCTC TTACTTTATT CATTTACATA 193140 ATAAATATAT ATTGAAGAGC TACTCTGTGC CAAGCCCTGT GCCTAGATAT ACAGTGATAA 193200 ATAAAGAGTA GCTTCTAGAG GTCACCTGGC GGTGAGGCAC AGGCCAGCTG GCAAGATGGA 193260 CCACAGAAGT CAGTGAATGA AGACAATGAC AAGGGTGGGA AGCGCCATAT GGGAAGAGAA 193320 CCAAGTTCAG TGATAGAGAG CAGAGGTGAG GCGGCAGCAG AAACCACTTA AGGGACACCA 193380 CGTGGCACTC CTTCTGTGCT GAGAAGGCTG TCAGTAAGCT CACCATTTAT TTCCTATTTT 193440 CTCTCCTGAG TTAAATAGGA AACATGTCTC GCATTACTTG AAAAATCAAG TCAAACTATG 193500 CTCTTACTAG GAGTTATGGT TCTTTTATG TCTTAGATGA TGCTTGATCT AGATGAATGC 193560 GGACTTGCTG TAGCTAGATA AATACAATGG GAGTTTGAAG GTGTTTCGTA GCCCTGGAAA 193620 TAGGTATTTC CTGTCAAAAC AAGCTTTGTC ATTGCCAGCA GACAAAAGCA TCAGTAACCT 193680 TGGTTGATAA TCGTCATTTC TTAGGAATAA AGTAGACTGT AGAATTTTTT TTAGCAGAAA 193740 GGAAACCCAA AGATAATTCT AGTGCAAATC CCTCACTTTA TAGAGCAGAA GCTCAAGTCC CAGAGGAACA AGTGGCTTGA ACGAACATCA GAATTTTAGG GGCTGGATTT GTACCCTCCT GGTGCCAGCA GCCCACTTCC CTGCAGGAGG CACTCACCTT CCTTGCACAG GGGTATGAGT GTGGCCATTT TCCACCCATA ATCTCTGTTA GCTCATGTTC AATTGGGTTC CCATTGAAAG AAAAATGGAC CAGTAAGTTG GAGCAGAATC ATTCAGATGG TATAACATAA GGAAAAACTT TGCCCAAGGC AAATCGTGAT TGTGACAGCT TTGTGATTTT TAGAGAATAG CATGGGCCAG GCACAGTGGC TCATGCCTGT AATCCCAGCA CTTTGGGAGG CCGAGGCAGG CAGGTCACTT 194160 GAGGTTGGGA GTTCGACAAC AGCCTGACCA ACATGGAGAA ACCCTGTCTC TACTAAAAAT 194220 ACAAAATTAG CTGGGCGTGG TGGTGCATGC CTGTAATGCC AGCTACTCGG GAGGCTGAGG 194280 CAGGAGAATC ACTTAAACCT GGGAGGCGGA GGTTGCGGTG AACCAAGATA GCACCATTGC 194340 ACTCCAGCCT GGGCAACAAG AGTGAAACTC CGTCTCAAAA AGAGTTCACA GTTTCTCTTT 194400 TGCTTTGATT TTCTTATCTG CCGGATAACA ATAGTATTTT GGAAGGCAGG AGGAATTGTG 194460 GAAAGAAATG GGTTTTGGGG AGTGGCTGAT TGGAGGCAAA TCCAAGGACA CTCATTGCTG 194520 GTGTGTGACT CCAGGCAGTT ACTCAGCTTT TCCAAGCCTC AGTTTCCTTA TTGTAAAACA 194580 GGACCATGGT CTAGCTAGTA GCATTCCTAT GGTGAGTGAA ATAATATGTA TAAAGCTCCT 194640 GACACAGTGC TTGGCATATA TCAGATTGAG CCATGTAAAA CTGCCAATAT CTGGCTATTT 194700 ATGACCTACA AAAATAGCAT TTCATATGAT TCCACCTAAC ATCTGAAGCG CAATAAATGT TATTATTGAT AATGCAGGTG GTGGTGATAA AGTTTTGAAA TCAGAAAGAC CTGGCTTCAA 194820 ATTCCACGCC TTCACTGGCC TGACTTATTT TCATTCATTT GACAAATATT ATTTTGAACA 194880 CCCCTATGTG CCAGGCACTA TGCCAGGCTC AGAGATGATC TAGGAAAAAG ACAGATGTCC TCATCTGTCT TAGGCTCTTG TGGCCTAAGC CTAAATTTCC TCGTCTGTCA AATGGTGACA 195000 GTAACACACT CCTTACCAGA GAGCTGGGAG GATTGGAGAC TCAAGTTCCC AAAACGCCAG 195060 GAGCACTGCG GCAGGTGAAA AGTATTCCCT CAATGGCGGA AGTGTTTAAA TTGCTTTTAT 195120 ATCTGTAGCT CTAGATAACA CTAGTTCCAG CTTAGTTAAC TCCCAGCTCC AAGCCTTCAG

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GACTTCATAG AGTTATTGGG GTGCTGCTCT TGGCAGTTTC CCAAAAAGCT AGAATGCAGA GGGAATCTCC TTCCCAAAAA GCTAGAATGC AGAGGGAATC TCCTTCCCAA AAGGCTAGAA CGCAGAGGGA ATCTCCTTCC CAAAAGGCTA GAACGCAGAG GGAATCTCCT TCCCAAAAGG 195360 CTAGAATGCA GAGGGAATGT CCTTCTCTC TAAATGGTAG CTGTTAGTTC AAGAAAGGTT 195420 AAACATTGTG CTGTGGGGAG GCTCAGGGGT GAAGGGTGTA CTTTTAAGAG AACCAGTTTC 195480 AGAGCTGGGT TTGGGGTTTA AGCCCTACCC TCTGCCCCCT TTTACGAGCT GACAGCCTTA 195540 TGCAAGCCTG GTTGACCACC TGAACCCACG TTTCCACATC TGGAAATAGA AATGTGGGTA 195600 CTAGTTATGT TGAAAGGACT CAGGTTAGAT GATAGATATG CAAATACCTT GGAAACCAGG 195660 AGTGTCCAGT CTTTTGGGTT CCCTGAGCCA CACTGGAAGA AGAGTTGTCT TGGGCCACAC 195720 ATAGAATACA CTAACCCTAT CAATAGCTGA TGAGCTAAAG AAAAAACGTT GCAAAAAAAA 195780 TCTCATATTT TTAAGAAAGT TTATGAATTT GTGTTGGGCT GTATTCAAAG CCATCCTGGG 195840 CCACGTGCGA CCCGCAGGCT CCGGGTTGGA CAAGTTTGTT GTAAACAATG CCATGATGCC 195900 GGCATAAGGT CGTTACCAGT ATTAGGAAGG TTCTCAGGTT TCCTCTAGCC CTTGGGCTCT 195960 TTTCCTGAAG TGCGTGTGT TTCTGCTAGA TTTTGTGACC AATGTTGATT GCCTAATTGG 196020 GCTAACAGCA TGTTTTGGTG GCTACGAAAC TGACACAGGT GTTTTCATTT CTCCACTTAG TTCCTGCTGC GTTTGCTGGA CTGATGTACT TGTTTGTGAG GCAAAAGTAC TTTGTCGGTT 196140 ACCTAGGAGA GAGAACGCAG AGGTAGGTAA CTGGGACTAC TAAAGAACTG TGGAGCGATT 196200 CCTGATTTTT GAGCAGGAAG AGTGACAATT CAAAACAGTA TTTGACTAGA TTCACGGCTC 196260 CGTAGCATCC CCTTGGGTGG GAGGGGGAAG GCTGACTAGG ACCTCTGATT CTTCTTTCCC 196320 TGAGCTTTGA AGGCTCTGAA AATACAGCTG GGGGGACTTG CCCAGTTTTC TTATTAAGCA 196380 ATTCCTCCGC ATGCTGCTGG CTTTCAAAGG GTGCTTCAGT GCTGTTTGCT GCACGTGCCT 196440 TGCAGCCCA CACCCTGCAC TCCCGCCCTG CAGAGTCTGG CGCTGGAATG ACATTTTAGG 196500 TCTGGGTTCC CAGGCCTCCT GAGAGTGAAA TGTTTCATTG TTTGTCTAGA GAÁATGAGAA 196560 CTAAAGCTTG CACCTTGTGA TAAGTTGTCC TGAGGAACAT ATCTTTCAGG GACCAGAAGA 196620 AAGAATGTTG GGAAAATAAG ATGCAGTAAG ATGCAGACAT GACAGCAGGG TGCAGCGGCT 196680 CACGCCTATA ATCCCAGCAC TTTGGGAGGC TGAGGTGGGT GGATCACCTG AGGTCAGGAG 196740 TTTGAGACCA GCCTGGCCAA CATGGTGAAA CCCCGTCTCT ACTAAAAAAT ATACAAAACA 196800 TTAGCCAGGC ATGGTGGTGG GCGCCTGTAA TCCCAGCTAC TCCATAGGCT GAGGCTGGAG 196860 AATCGCTTGA ACCCAGGAGG CAGAGGTTGC AGTGAGCCGA GATTGCGCCA CTGCACTCCA 196920 196980 GCAGACACGA GACTGTGAAA CTGACTAGCA TCACCATTGC ATTGTTTATA GATGTTGCCA 197040 GACAGAAAGC CCCAAAGCAG CACAGTACCT TCCTGACATC TGGACTAGGA AATCTAGATT 197100 TTAGTAAAAT ACATGCTAAT ACTTACAGAA GAAATGTCGG CGTTAGAGTA TGCCGTCAGT 197160 TCCTTAGAGA TTGCAATTCC TAATGCACTA GTATGGTTTC AGGTGCCAGG AACACGTTCT 197220 GTGAGGCTGC TGCCCCAGGT GCTGACCCCA GCCTTCCACA CCATTTTCCT TCCTTGTGTT 197280 CACAGCCGCT CTGTCTTTTA CAATAGCACC CCTCTCTAGT GGCTAATGGG CTCTATGATT 197340 AGATAGCATC CTTCAGTAGT GATAAAGGĆA GTGACATCCT AGGGAGGTCA GCGGGTGAAA 197400 GCGCTATATC TGGAAAACCT GAGAGCCTGT GAAGCTCAAG GACTTGACGG GGTTAGACCG 197460 TGAGCCGGGC TGCAGCTGGA AAAAGAATGA CTGTTCTTTC AGCAGATCCT TCCCTGTGCC 197520 ATCTCTTTCT TCATTCCTCT CTAGTGGCAT TCTTATTTAT CCTCTAAAAC CACAATTCCA 197580 TTATCTCTCC TATTCTTATC AACACTGCCC TAAATGATAT TCTTTATTCT CTTTTGCCCT 197 640 GGAAAACCTC TATCATGCCT TTTCCCATGT GATTACCTCG TTAAGAGTGG GGGTGGAATG 197700 TCTAGCAATG AAATAAGAGG GTCTTCTCTT TTGCCTGGCT CCCTATGCAG CCCTATCTTA 1 97760 CCCCTGCAA AGTCCCAGGG ATGTGGCTCA GTCACTGCTC CTCTCTTCAT CTGTCACCAC 197820

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TTGCTTGAGA TCCTACAGCT GCTTTAATTC CGAGACCATC TGCAGAACAT GACAAAATTT 197880 GTCCACCTAC CCACATGTCC TTTTAACTTT AAAGGCTTTA CTAACTGATT CCTATTAGGG 197940 AATGAACAGA GGTGGCAAAA ATAAACAATA GGAGATTGAT TTACAAGAAA TCTTTAAAAT 198000 AGTAGATTTC TTCGGACCTC ATTGAAATAT AAATGGCCTG CCTTCTTGTG TCCCTCCTG 198060 GTCTCCCTCT TTAGGTGATA AGAAGAAGAT CCTGCCAGCC CCATAACCCG CCATCTGCGC 198120 GGGTTCTAGA CCCCCTTCTC CTCCCCTCTG GCCGTGGTAG GCATTACTGA TGAATCATGG 198180 TGCTCTTTCT TCCAGAGACC AAACCTGGCC TCGGAATCCT TCTTAACACA GATACTGCTT 198240 AACACAACCA CTCTGAGCAG CTGTCATAAG TAGAAGTAAT AGATACTAGA AGAAATGTCT 198300 AAGCCTAATC TAGACCAAAA TACGGCCTGA TATAGATGCA AGCCAGAGGG GCTTTATGGT 198360 TAAATGCAAG GAGATTTTCA ACCCTGCCGT CTAGAAGCTA CTTGCTGAGA TCTTCTTCAG 198420 TTGGGCCCAT CTCCTCCCA GGCCTCTCTT CTGTTCCTGG GCTATGTCAC ACTTGGACTC 198480 TGCAGACACC TAATGCTCTT GGGACCTGCT TTAGTTCTTG ACCTCACCAA CCGAGGAGGA 198540 ATTGCTAGAT GAGATCCTTC CCCCGGAATT TCTCTCTTGA ACCCCAGATG GTCCGTTGCC 198600 CCTTTCCAGA AGTTGCTCCA GCCCTGTCCG CTTAGGAAGT TCAGTGTCAT CCTTGATCCA 198660 GTGGGTAGGG AAGACATTCC ATAATGAATG CCCCAGTCTG AGCTTCTTCC TTCAGGCTTC 198720 AGGCTGCCCT GCGAGGATTT TGCAGCTCCC TTTTTAATGC CCTCTAGAAG TTTCTGGCTC 198780 TTATTTCAG CCCTTCATCC TACTCTCTCT GACCCCTTCC TCTATCCTGT TTAGTTCACC 198840 TGTAGCAGTT ACTACCCAGC AGTGAAGGAT GAATCTTGGT TTCGTTTCTT TTCTCTTCTT 198900 TTCTTTTTC TCTTCTCTTT TCCCCTTCCC TCCCTTCCC TCCCTTCACA TCACCTCATC 198960 TCACCTCACC TTACATAGTC TTGCTCTGTC ACCCAAACTG GAGTGCAGTG GCCTGATCTT 199020 GGCTCACTGC AACCTCCACC TCTTCCCAGG TTCAAGTGAT TCTTATACCT CAGCCTCTTG 199080 AGTAGCTGAG ACTACAGGTG TGCACTACCA CACCCAGCTA ATTTTTTGTA TTTTTAGTAG 199140 AGATAGGGTT TAGCTATGTT GGCCAGGCTG GTCTCGAACT GCTGAACTCA AGCAATCTGC 199200 CATCCCGGC CTCCCAAAGT ACTGGGAGTA TAGGCATAAG CCACCCATGA TGCCCAGCCT 199260 GAATCTTGGT TTCTTCCCCA TTCATTTAAG CTATTACCTG GGCCTGAACT CAATGGCACC 199320 TGGCACCAAC TGGCAACTGA CTCTTGGTCT TTTATTACCT ACCTTCCCTA GCAGGCACTG 199380 GGTTGCTCCC TCTTCCTATC CCATGGAGTC CTGTCCTCTG TTGGGGCTCC TACTGATCCT 199440 CTTGGCAATA TGAAGTTCTC AGCTCAATGG TGGGTGGGCA ATGACTGCCA ACTCTTGAGG 199500 CCAATGAACT CAGGTTACCC CACTCCTCCT CCTCCTGAGT TGCTCACTCA CTCCTCATTC 199560 ACTCAACATT GATTCAGTAG ATATTTGCTA CCTGCTCTGT GCCAGGTACC AGGTCAGTTG 199620 CTGAAGGAGT AACAGTGAAC ATGACGGAGT CTTTGTCCCC AAGGAGACCC AAGGTGTCTC 199680 CTAGAGCCAG GGGCACATTG CAAGACCAAA TATATTCAAC TTACCAAAAT AATCATAGAC 199740 CTAGTTCTCA AAAAGCAAGA AGACTGATTC CTCGTTGTCA TTTCTCCTCC TCAGCATCAA 199800 TGTTTTAGAG TCTGTGGGCC CCTCCAAGTG TGGAGTATGG TGTTACTTCA CCAGAGTTTG 199860 AGGAGAAACA TTCTTCTTTT GGAAGGCCGG GGAGCATAGA TGGATATCAA GGCTGCTGTT 199920 TCTAAAAGCG AAACCCACCA AACAACAGTA TTAGAATCAT CTGTGGTGCT TATTAAAGAT 199980 ACAGATTCCT GGGCCCCATC CCAGACTTAT GAATCAGAAT CTCTGCCAGA GGAAGCCTGA 200040 GAATTTGCAT TCTCAGATGA TTCTGCATTC TCAGATAACA CATTCTTAG GTGATTCTTA 200100 CACACACTGG AGTTTGGGAA TCGCTGAAGG CTGTTCACTT CTCTTTTCTG AGAAATGATT CATTCATTTC AGAAATATTT GCAGAGGTCC TTATTTATTG GAGATTTGTG GGTGGGCAGA GGAGAAATAT CTTGTCCTCA CAGAGCTTAC AATTTTTATT TTCTTTAGAG GTCACCAGGC TTAAAATGAC ACTTCCCTAA ATTCTGAAAA GAACAGATTT TTAAAACAAG AAGGGACTGT AATGTTTTCT GTTCCTACCT CGTATTTTGT TCACATTAAG AACCTGGGGT GGGAAGTGGA 200400 GGAGGGGGG TGACTGGCGG GGGGCCACAG AGAGCTGAGC TGGGGTGGTC TCGAACTCCT 200460

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GAACTCAAGC AATCTGCCAG CCTCAGTCTC CCAAAGTGCT GGGATTATAG GCATGAGCCA 200520 CCCACGATGC CTGGGTGGAA CTCAGGGCTC TGGATGCCTG GGCGCCCCCA TCTCCCACAC 200580 TACGGCGCCT CATCCTAGAA GTGGTTAGCA CCTTTGAGAT GGGAATTATT TAGCAGGATG 200640 CTTTTGTGTT TTCATGTAG TTTTATGCTG CCTGTGGAGG GCACAGCTGT TTCAAAACTA 200700 ATAACCAAAT CCTGGTCTCC GAAGTCTGAA GGCATCCTTT GCCCTGCAGT GCAAAGCACG 200760 GGATTCTGGC CTCACACAGG CAGGTCTGAA CTCCTGTGTT GCCTCTTGCT GGCTGTGGGA 200820 CCTGAGGCAA ATCATGCAAC CTCTCTTTC TGTTTGCCTA GATGGAAAAT AGGTTTACAA 200880 TACGCCCCA TAGGATGCT GTGAGAATTA AAGGAAGTCA TGGGTGTACA ATACCTGGCC 200940 CCGAAAGATG CTTAATAATT TAATTCTGAC CTTCCTCACT CATTTAGGAT TATGTACCAA 201000 CTTTTAGAAA CAATGAAAGA TTAGTGAGTC TTCTGTGGTT GGTATAAAAA AAAAATAGAA 201060 ACATGAAAGA GATGTCCTCC TTGTTCAAGG GCTAATGACC CTGGTGTGCG CTGTCTAGGC 201120 CCCCAAGGTC TTCCTTCCCT GCTCACAGCA TTTCAGGTTC TCCGCAGCTT TGCTGAGCCT 201180 GGGTCAGGTT CGGTATCTGC CCACCATGCT CACTTGCCAC AGCTGTGGCC CCATTTCCAA 201240 ACTTCAGAGA CTTAAAGGTG CAGCTAATGA TGTGCCCGGC CTGGGGTCAC ATTCCCTGAG CCCTGCAGAC AAGGGAGCAG GAGGCTGAGC TCTTATCTTC CACACCCTGT GCACAGCCTG 201360 GGAAGAGTTA AAGCACCCTA GTCCTATGCT GCGAGGGCCA CATGCCCTGA GACCTTGGAA TTCACTTCGG TTTTATCTTG AGTGTAAAAC AGCTTCGCAA ATCACTTTTT CTTGTTTCTG 201540 TAATGAGCAT ATGGTGGCCT CATTCGTGTG ATAAATCTGA GCCACCACGA TATTTGACTT 201600 TTCACAATTT AATTTATCTG AACCCTCTAT TCTCTGGCTA AAAAATATCC CTTACTTGGA 201660 CTTCTTTATT TTATTTTCAA TTCCCTTACC AGCACTAGCA GGGGACTCTG TACTCATCTG 201720 CTGGCGCTGC CATAACAAAG CACTGCAGCC TGGGGGGGCTC AAACCACAGA ATTTATTCTC 201780 TCACAGTCCT AGAGGCTAGA AGTCCAAGAT CAAAGTGTGG GCAGGGTCGG TTTCTCCTGC 201840 AGCCTCTCTC CTTGGCTTAT AGAGTGCCAC CTTCTACCTG TGTCTTCACA TCATCACCTC 201900 ACTGAGCATG TCTGTGTCCA AATCTCCCCT TCTTATAAGA CCCCAGTCAT ACTGGATGAG 201960 GATCCACCCA TATGAGTTCA TTTTACCTTA ATTATCTCTT TAAACACCCT GTCTCCAAAT 202020 ACAGTCCCAT TCTGAGGAAC TGAGAGTAAA GATTCAACAT ATGAATTTTG GAAGGGACCT 202080 AATTCAGCCC ACAACACCCT CTTTTGGGAT GTTTATTTTC CCCCTTAAGG AGCTAGTTAG 202140 GATGTCTTAT CTCATGAACA TGACTGTGAA CAGGAAAACA GGGAGAGAAT GAAGCTGGCC 202200 AAGGAACAGG GCTGGTGTCA GCTAGCAGTG CTTTTCTGAT GTGAGTGGGT CCCACAGGGA GCTTGTTAAA ATGCAGATTC TGATTCATTA GGTTCCAGAG GGACCTGAGA TTTCCCATTT 202320 CTGACAAGTT TCCAGTGTGG GGGCTGATGC TGCTGGTCCA CGGACCATAC TTTGAGTAGC AAGGAGCTTG ATACATAATG GCTGAGTGAC TTTCAGACTC CTGCTGTAGA AAAATTATGA 202440 GTTGGCTGGG CGTGGTGGCT CACGCCTGTA ATCCCAGCAC TTTGGGAGGC CGAGGTGGGC 202500 AGATCACCTG AGGTCAGGAG TTCGAGACCA GCCTGGCCAA CATGGTGAAA CACCATCTCT 202560 ACCAAAAATA CAAAAATTAG CCAGGTGTGG TGGCAGGTGC CTGTAATCCC AGCTACTCAG 202620 GAGGCTGAGG CAGGAGAATC GCTTGAACCC GGGAGGCAGA GGTTGCAGTG ATCTGAGATC 202680 GTGCCACTGC ACTCCAGCTG GGCAATAGAG CTTGACTCAG TCTCAAAAAA AAAAAAAGAA 202740 AAGAAAAAGA AAAATTATGA GTTATATTAT CAGCATATGG GGTGCCTTTC AAATTGATAA 202800 AATTTCTAAT ATTAAACCTG TGGATGCCAA ATGCTGCTCT CTGATTATGG CAGGAAACGG 202860 202920 CACTTGGCAG TACGAAGTTA GCTGTTGGGC TGAGCTGGCT CATCTTGTTG TGCGGTCCTG ATTGCCTAAA GATGCCTTCC CAGGATCTTT ACTAACAATC CTCCTGAGTC ATTTGGACTT 202980 TCCCAACCTG TTATCACCTC TCAGATGGGC CAGCCATGGA GGCAGTCAGA GGAGGGCTCT 203040 GCAGAGGGAG GGCAGAAACA GGGTGGCCTC TGCATGCCAT TAGGAGGTCA CATCTCACTG

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GGGGATGCAG TTTAGGATTT AGTGCCTTGG AGAGAAGGAT AGAGTATATT AAAACATGTC TCCGCTAGGC ATGGTGGTTT ACGCCTATAA TCCCAGCACT TTGGGAGGCC GAGGTGAGTG 203220 GATTGCCTGA GCTCAGGAGT TCAAGACCAG CCTGGCTAAC ATGACGAAAC CTCATCTCTA 203280 CTAAAATACA AAAAGTTAGC TGGGAGTGGT GGCGTGCGCC TGTAGTTGCA GCTACTTGGG 203340 AGGCTGAGGC ATGAGAATCA CTTAAGCCCA GAAGACTGAG GTTGCAGTGA GCCGAGATTG 203400 CACCACTGCA CTCCAGCTTG GGCTACAGAG TGAGACTCTA TCTCAAAAAC AAAGAAACAA 203460 ACAACAACAA TAACAACAAA AACCAAGTCT CTCCCTCCAC TCAAAAATGC AAGGGCCTGT 203520 CTCCCATTGC TGGGTGCCCA GGTCTCATGA ATGTAGATAT GAATTATTCC AGTCAGCCTC 203580 AGGAGAATAG AATGAGCCCT CAGATGCCGA AGCACCTTTC AGATTCCACC GGTTTTATCG 203640 GCTCATTTAA ACTTCACTTC TAACACAGTC CTGCATTACA CACGTGTCTG TCGTTATGGG 203700 CAGCTGCAGA GAGGGTCTTA ATGGTCCTAA TGCTCAGTGA GGATGCCCAA TGGTCAACAG 203760 AACCTGCCAT CTTCAGGCCA TCAAGGAGCT CTGGAGTTAA GGAAATCATG AGAGCACAGA 203820 GGGGCGGTA CAGCAGAGCC CTCGTGGTAA TGGGTTTTGA GGTCTAGGCT CTCTTCACTT 203880 GGGTTTGAAA TAAGTTCAAT GACTAGTAAT AGCTGAGACA CTTCTACCCT TCAAATGAAG 203940 TAAATGGGAA AATGGAGCAT TGTTGAGTCC AGGGAGCTAT AATTTAAACC CCATATATCT AAAAGGGGTA ACATTTTTGT GTGTGTGAAA TTGGTGTCAT TCGCACTGCA TCTACAGTTT 204060 TCTTTTCCT TCTCTTCCAG CACCCCTGGC TACATATTTG GGAAACGCAT CATACTCTTC 204120 CTGTTCCTCA TGTCCGTTGC TGGCATATTC AACTATTACC TCATCTTCTT TTTCGGAAGT 204180 GACTTTGAAA ACTACATAAA GACGATCTCC ACCACCATCT CCCCTCTACT TCTCATTCCC 204240 TAACTCTCTG CTGAATATGG GGTTGGTGTT CTCATCTAAT CAATACCTAC AAGTCATCAT 204300 AATTCAGCTC TTGAGAGCAT TCTGCTCTTC TTTAGATGGC TGTAAATCTA TTGGCCATCT 204360 GGGCTTCACA GCTTGAGTTA ACCTTGCTTT TCCGGGAACA AAATGATGTC ATGTCAGCTC 204420 CGCCCTTGA ACATGACCGT GGCCCCAAAT TTGCTATTCC CATGCATTTT GTTTGTTTCT 204480 TGCAGAGACA TGTTTTAAGC TGATAGTTGA GGGGTTTTGT TAATGGCTTT TGGGGGATTT 204600 ATCTCTATAC CCACAAACGA CTAGTTTGTT TTCCTCAAAC TAAATGATAA TATTAAAAAT 204660 ACACATCCTG GCCAGGTGTG GTGGCTCATA CCTGTAATCC CAGCACTTTG GGAGGCCGAG 204720 GCAGGTGGAT CACTTGAGGT CAGGAATTAA GACCAGCCTG GCCAATATGG TGAAAGCCTG TCTGTACTAA AAATACAAAA ATTAGCCAGG TATGCTGGTG GATGCTTATA ATCCCAGCTA 204840 CTTGGGAGGT TGAGGCAGGA GAATTGCTTG AACCCGGGAG GTAGAGGTTG CAGTGAGCCA 204900 AGATCATGCC ACTGCACTCC AGCTTGGGCA ACAGAGTGAG ACTCCATCTC AAATTAAAAA AAATACACAT CTGGCTTCTG GAAAAATTAC TTGAAGATCT TTTATGACAT CCATCCCTCT 205020 TCACACAGCC ATGTGAATTA GGTTGGTATC TTCATATACT AGCATCGTGC CCAGCACTTC 205080 CATGTTATAC AGTTTAAAAT GTTCTGTAAT TCCCTGTGGG AACCTAAGAT AATGCGAGGA 205140 CCGTCATACG TGCCCCAAA TATTGGCAAA CCAATGAATA AATGAATGAA TGAGTTTATG 205200 AATCGCTAAC TGGCTGTATT TAATGAAGTA TGTGTGTTGA GCCATTTCCC ACAGTGTGGA 205260 CAGATTTGTC CCACAATATG GGCCTCTTCC CAAAGGCCCT ACCACCTAAT GCCATCACAC 205320 TGGGGATTTG ATTTCAACAT GTGAATTTGG GGAGAGTGCA AACACTCAGA CCATAGCACC 205380 ATCTCAGTAA ATGTCCCACT GGTCACTCAG TTCATAGTGA CAGTGATCCA GCCACTGTCA 205440 TGACAGGTGC CACTTGGCAG AAACAGCACA GCTTGGAAGA TGGCGGGGTG TAGTCAAGAT 205500 TCCAGGATCC CCAACAGAGA AGCCAGCTCT TATAGGGGAG CCATTCATCA GGATTGAACT 205560 CTCAATCGAG CTGGACAGTA ATAGGTGGGT CTGTGTTATT CCCCAGATGA GTATCATGAC 205620 AGTCACAATC CTAGGAAGGA TGTGAAGCCT CCCCAGCTC TCCTCCAGTT GCCTGCTTGG 205680 GCAGCAGAGA TGATGGAATG TGGAGTCTGG CGTGGTCTGA GGCCTGAATC CATGTGCCTC 205740

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ATGTATGATG CTCAGGCAAG AGGATCTCTC AATTCAAGGG AGAGGGCCTG AATGAGCCTT GCTTTCCAGG CCTGTCTGAT GGTCCAGGCT GAAGCCCCTC CTGGCTTGCA CTGCCAGACC TCATCCAGCA GGAGCTCCTT GGCATTGACT GCTTCAGGAT AGTTGCTTCT GCTCTGAGTG 205920 CTCTCTAAAG AGCAGTGCTC TACCATCCAA GCTGGGCTTT TCTTTTCTTC TTGCTGATAG 205980 GGAAGGCATG GGACATTGCA GGATGGAAGT GGCCCCCAGG CCTTCTCATG CCTGGGCTTG 206040 GTTTGGAAGG TGGTCAGGTG ATCAATAATC CTGATTGGCC TGGCATTGAG GAGTTTTCCT GGGATGTGGT CCTTTCGGTT TTTTAAAAAT TATTTTTATT GATACACATA TTTGTAGGTA 206160 TTTGTGGGGT GCATGTGATA CTTTATTATG TGTGTGGATT GTGTAATGAT GAAGTCAGGG 206220 CATTTAGGGT CTTCATCACC TTGATTATCA TTTCTATGTG TTGAGAACAT TTCAAGTTCT 206280 CAGTTCCAGC TATTTTGAAA TAGACAGTCC ATTTTGTTAG CTACAGTCAC CCAACCGGC TGTCAGACAT TGGAACTTAC TCCTATTGAA CTGTGTATTT GTACCCATTC ACCAAACTCT 206400 CTTTGGGCTT TCAGTTTTAC AACTGGGATG ATCCTGGGAA AACTAAAGTA AATCAGACAC 206460 CCGACGTGTG AGCTAGGTTA TAATATGCCC AGTGGACCCT GGGGACATCT TAGCTTTCAG 206520 AGGTCATGCT GTCCAAGCTG ACTGTGGGGC TTCCAGAAGG TGGGGAGAGG AAATGATGCA 206580 ATGGCCCATC AGAGGCACTA CTTGGGGCCT GGGGCCAGAG TGCATGTCTA AGGCATTAAG 206640 GGGAGGGGAG AGCAGCCTTC ATAATTATGA AGAGGAGTCT CAGGTGCACA GCTTCTGATG 206700 AGGGACAGCT TCTAATTGAA GACAGCATTG TGTAATGCTC AAACTCCCTG TCTTCAGAGT 206760 GCCTGCTGTA TCCCACCATC AGTTCTGTGA CTTCTCCCTA AGCCTCAATT TTGCATGTGT 206820 TACATTGGGA TAATAATAGT GCCAAACTCA TGGGGTTGTG AGGAATAATG AGGTAAAGCA 206880 ATTGAAAAGG TTTAGCACAA TATAAGTGCT CAATAAAAGC CATTATTATT ATTTTATTAC 206940 ACTAGTTTTC AATTCCTGCA TAGCAAATTC TTGCAAATGT AGGGACTCAA AACAATATAA 207000 ATTTATC TGACAGTTTT TCTGGGTCAG AGGTCTTACT AGGCTGTAAT CAGAGGGCAA 207060 CCAAAGCTGT GATCTCAGCT GAAGCTCAGG ATTCTCTTCC AAGCTCACTG GTTGTTGGCA 207120 GAATTCAGTT CTTTCCAGTT GGAAGACTAA AGCCTACAGT CTTCAGTCTC TAGAAGCCTT 207180 TTCTCTGGCA CAGGTTTCTC TACAACATGG CCATTTATGT CTTTAAGGCC AATAGGAGAA 207240 CATGATTAGC ATATTTTTT TAAGTGAACT TTAGACCCTT TTTTAAAGGC CTATCTGATT 207300 AGGCCAGGCC CAAGTGAGCT TTAAGTCAAC TGATTAGAGA TCTTAATTAC ATCTGCAAAG TCCCTTCATG TTTACCGTAT AACATAACTT AGTGAAAGGA GTGAAATTGC AACCAGGTTC TGCCTGCACT CCACGGAAGG GGATTCTGCA GAAGTGTGGG TCACGGGGGG GTTATTTTGG 207480 GATTCTGCCT ACGTCACTGA GTCAAAAGAA GCTGAATGGT TGTGATGCTG AGGTTTTTGG 207540 GCAGCAGCAG TGTGTGTGTG TGAGTGAATT CATACGTATG ACCACCTGGG AAGAAAGGAG 207600 GCTGTGGTTT CCTCCACCTC CTGGCAGACA GAGAAATTTC TTTTTTTTT TGAGACAGGG 207660 TCTGGCTCTG TTACCCAGGC TGGAGTGCAG TGGCTTGATC TCTGCTCACT GGCTCACTGC 207720 AGCCTCTGCC TCCCAGGTTC AAGTAATTCT TGTGCCTCAA CTCCAAGTAG CTGGGATTAC 207780 AGACACAC TGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGACGA GGTTTTGCCA 207840 TGTTGGCCAG GCTGGTCTTG AACTCCTGAC CTCAAGTGAT CCGCCCACCT CAGCCTCCCA 207900 AAGTGCTGGG ATTACAGACG TGAGCCACCA TTAACCATTT TTCTATCTCC TGTGGGAAAG 207960 GGCACAGTGA AAGAACAGAT GAAGCTGAGA CATACAAGTG AACTCCTCCC TCCTCCAT 208020 TTAGACTAAA ATAGGATTAT TCATACTGAG ATTCTCCCTG GTTGCAAAGA GATAATCTGT 208080 GCAACTGGGT TTTTACAATT ATCCCTACCC TATGCTTTCC TCATCTGTCT TCCTCGTAGT 208140 CAGCTCAGGC TGCTATAACA AAACACCATA ACTGGGGGGCT TTTGAACAAC AAAACTTTAC 208200 TTCTCACAGT TCTAGAGGCT GGAAATCCAA GATCAAGTTT CTGGCAGATT CGGTGTCTAA 208260 TGAGGTCCTG CTTTCCAGTT TATAGACAGT GCCTTATCGC TACCGCCTTA CACAGTGGAA 208320 GGAGAGGACG AGAAGCTCCT TGGGCTTTTT TTTGTTTCTT TCTTTTCTCTC TCTCTCTTT 208380

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TTTTTTTTT TTAATAAGGT CACTATCTTA GTCCATTTTG TGTTGCTAAA AGGAACATCT 208440 GAGGTTGAGT AATTTATTTT ATTTTAAAAA GTGGCCAGGC ATGGAGGCTT ATCCTGTAAC 208500 CCTAATCCTT TAGGAGGCCA AAACAGCAGG ATTGTTTGAG GCCAGGAGTT CAAGACCAGC 208560 CTAGGCAAGA TAGTGAGACC CCATCTACCC CATCTCTACT AAAATTTTAA AAAATTAGCT 208620 GTGTGTTGTA AAGTGTGCTT GTAGTCCCGG CCACTTGAGA GGCTGAGGTG GGTGGAGTTC 208680 AAGGCTGCAG TGAGTTATGA TTGAGCCACT GCACTCCAAC CCGGGTAACG GGGCAAGACC TTGTCTCTAT TTAAAAAAAA AAAATCTTTA TGTGGCTCAC TATTCTGGGT GGCTGGAAAG 208800 TTCAAGATTG GGCATCTGCA TCTGGTGACA GCCTCATGTC GCTTCCAGTC ATGGGGGAAG 208860 ACGAAGGAGA GCTGGCACGT GCAGATATCA CGTGTTGAGG GCAGAAGCGA GAGAGAGAG 208920 GGAGAGATGC CAGGCTCTTT TTAACAACCA GCACTGGGGA AACTAATAGA GTGAGAGCTC 208980 ACTGACTCCT GAGGGAGGAC ATTAATCTAT TGATGAGCGA CCTGCCTCCA TGACCCAAAC 209040 ACCTCCAACG ATACCCCACC TCCAACACTG CCACACTAGG GATTAACTTT CAACTTGAGA 209100 TTTAGAGGGG GGAAACTTAC AAACTATCGC AGGCACTAAT ACCACTCATG AGGGCTCCAC 209160 CTTCATGACC TAATCACTTC CTAAAGGCCT TACCTCTTAA TCTCATCACA TTGAGGATTC 209220 GATTTCAACT TGAATTTTGG GGGGACACCA ACATTCAGGC CATAGCATCA TCTCAATAAC TGTCCCATTG GTGGTCACTC AGGCCCCAAA CAAAGGAACC TTCCTCCATT CCTTTCCGCC 209340 CTCCCACCCA CAGTCAATCA TCCCCAAGCT CCATCAGCTC CACCTTTAAC GGCCAACCCA 209400 CCTCTGCCAC ATCTCACCAT CTCCACTGCT ATCCCTGTCA CCTGGGCCCA CCATTCTCTC 209460 TGAGACAGGT TCCTGCTCTG TTGCCCAGAC TGGAGTGCCA TGGCATGATC ACATCTCACT 209580 GCGGCCTCCA TCACCTGGGC TCAAGCAATC CTCCCATCTC AGCCTCCCAA GTAGCTGGGA 209640 CTACTGGCAC CACCATACCT GGCTAATTTT TTGTTGTTGT TGTTTAATTT TTAATACAGA 209700 TGAAGCCTCA CTATGTTGCC CAGGCTGCTC TTGAACTCCT GGGCTCAAGT GATCCTCCGG 209760 CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGTGCCCAG CCCATCAGAT 209820 GTTAATGCTA CACGCACTTG CTTAAAATCC CCCAGATAAT TCTCGCTGCT CTTGGAATAA 209880 TTCCCACACA CCTTGGCGTG GCCATGCAGG CTCTGTGCCA TCGGATATGT CCCTGCCCCC 209940 TCTCCCAACT CCTCCTTTCG CTTGCTCGTT CACTCAGTTC CAGCCACATT GCCCTGGGAG CTGCTCCCAC CATGGGGCTT CCTAATGCAC TGGTCTCTCT CATGCAGTGG GGCCTCTCCC TCCTTTTACT CAGTGTCTCC CAGCACCCAC CTCCTCCAGA GCCTTCCCTG ACCACCACAC 210120 CTACACCTAG GCCCTTCCTC CTCCACGCTC CCTCCTCCAC CCCGGCCTCC TACCCACGTG TCACTTCTTT ATACTCGCTG CCACCTGAAA TTAGATCATT TATTTACCCC TTTATTTGTT 210240 CAGTTTGCCT TGTCCGTTAG AATATAAGCT TCCAAAGGGC AGGAGCTTTG CCTATATTGT TAGGCCGGGC ATACAATGAG CACTCAAAAA AATATTTGAT GAGTGTATGA AAGAACAGAC 210360 TGGGTTATGT AATTGTGCCT ACTTACCTAT ATGACCGTGT GGTGGGGTTT ATGGTGGGTG 210420 TGGTGGTGAT GGCTATAGGG CTATAAGCAA ATTTGGGACA GGGAGTCTAA GAAATGTTCT 210480 TAAATTTTAG TAAGCAAAGC ATCCTCTACA GAACCTGTCT TAAAACATGA AAGTTCCTTA 210540 GTGCTACCCC CAGAGGTATG ATTTGGTAGG TCAAGGATAG GGCCTGGAAA TTCACATTCT 210600 TGTTAAGATG TTCTTCATCC GGGGTTTGTT GACCACCTTT TCAGAAGATT TTTGCTCTGT 210660 AGCTGTACTA CCCAATGCAG TAGTTCGTAG TCAGTGTGGC TCCTGAGCCC TTGAAGTGTA GCTCCTCTGA ACTGAGACGT GCTGTAAATG TAAATTGCAC ACCGGAGTTT GAAGAGTTAA 210780 TACAAAGAAA AAGGAATGCA AAACATCTCA TTAATAATGC TTTACACTGA TTACATATTG 21 0840 AAATGGTAAT CTTGTAGATA TAGTGCGTTA AATAAAATAT ACTGTTAGGC TTAATTTCAC 21 0900 GTCTTTATAC TTTTAATGTG GCTACTAGAA AAATTTAAAT AACATATTCA GCTCACATTA 210960 TACTCCTATT GAACAGAGCT GATCTATAAG TTCCATGGAA GATGGCAAGT CTTCGCAGCT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GAAATAAAGG CTGGATCCCA TTCTACGGGC TCATCTTTAG CAATGATTTC TTGCAGACGA 211080 TATTGAAAAA TGTGGCAATG AAAGTTACCA CAAGCATCAA ACCAGTCCTG CCTAAATCTG 211140 GAAAATAGTT ATCTGAGGCT GTTAGCATAT GATCATGAGA GCGTTTCACC ATGGATTTCT 211200 GATCACAGAT GTGGCACATT ATTAAAATAT CACTTTTACA GTCACCCTAG AGGCTAGGGT 211260 TATCTGAATA TGGAGAAAGA AACAGCTTGT GGAGCTGTTG TATAAATGAA ATTACTAGAA 211320 AGTAATGCAC TCAATTGCAT ATTGGCTCGG GGGGTTATTC TTATTAAAAT GTTTAGAGAG 211380 GACTITCTGT TCATTTCTGC AGAATTGCTC TTCAAATTAA GAATTTGCTT GACACGCTAA 211440 TAGACCACAG TCCCAAGAGA AGTTTATCCT TTTTTCTTCT TATCCTTGCT AAGCACTTAG 211500 ATGCTCTGCT GATAGGTAGC ATATATTGTC TATATGAAGC TTTTGTGTTA ACATTGACTA 211560 GTCCTGCAAG TTGGCACACT CTTACTTGGC CTAAAAGAAA TCAGCACCAG GCTTTAAGAA 211620 AATCAGATGA TCTACCTAAA GGAACACAC TCTGTCTCTC TTTTGACAAT TGTTGTAAAC 211680 AAATTTAAT GGAAATTTGC CTTAATTGTG AAGAAGTTGC TGCTAAAATG GACTTGCCAT 211740 TAATGGACTG GAACCCATTG CATAAGCAGA ATGAAATATA AGCCTTCTCA GGATTCACAC 211800 TTATAAAAAA CCATTCAGCC AATCAACAAG AGGGCAAAAG AACAAACATT TGATGTGTAA 211860 TTACTTAATT TAGTGCATAT GCATTTGGGT CCTCAATGTC AGCACTATGG CAACCAGAAC 211920 ATGGCCACAA TAACTGTCTG GAAATGTCTA TTCTTACCTG GACCCAGCAG GCCATGCCCC 211980 ACTGATTATA TAATCTCCCT CTCTCCTTGT TACGGTCTGA ATGCTTGCAT CCCTCAAAAA 212040 TTCATGTGTT GAAATCCTAA CCCCCAAGGT GATGATATTA GGAGGTCGGC CTTTTGAGAG 212100 GTAATTAGGT CATGAAGACA GCATCCTCAT GAATGGGATT AGTGTCCTTA TAAAATAGGC 212160 CCAAGGGAGC TCATTCACTT TGTCCACCAT GTGAGAACAC AGCGAGAGGG CACCATTTAT 212220 GCACCAGGAA ATGGGCCTTT TCCAGACAAT CTGTCGGTGC CTGGATCTTG GACTTCACAG 212280 CCTCTAGAAC TGTGAGAAAT TAATTTGTTT TTTATAAGCC ACCAAATCTA TGGTTTTTT 212340 TATAGAAACC GTAATGGACT AAAACACTCC CTAATTATAT TTAAACTTAT CAGTGCACTG 212400 GGCAGTGACA TATTAAAAGA ATGCTGGCCA ACGTAATTGA CACCATAAGG CTGGATGATT 212460 CTTGTAATTT TCAGCCTCAG AAAAAGGCTG GGGAGAGGAG TCAGGGGAAA GGAGGTGGTG 212520 TGTGTGTGTG TGTGTGTGTGTGTGTGTGTGGTAC GGTGGATGCC TGCTGAGAGA 212580 GAAAGAGCTA TAATAACATT CTGTGGTTCA GCTGACACAT CCTTTCTGCA TCCCCTCCAA 212640 TCACCTGGGT TAATGGGGAC CTCGCTAATG TCTGAACCTC ATCTCATTTT AACCTTTTGT 212700 TTCAAAGCCT CTCTTTCAT GACTTCCCCG CCTTCATTTT TCCCATATGG TGGGGTTATT 212760 ATTAAGACAT TAAATGAGAG TGGACAGGTA GGCAAAGGAG GTGGGTTGCA GGGGAGTTGA 212820 GGGTTGCCTG TGTACTTTTC TAGACTGTTC CACTTCACAT CAGTGAAATA TTCCCAATTG 212880 ATACTATCAT GAAACAAAGC AAATGAAATG CTGAGCACGG AGCTTCGTCT TGATGAAATG 212940 CTGAAAGAAA AGAAAGGAAA AATAAAGTAG CCATTATTTT TGCCCTTCCT CCCACCCCCA 213000 TGTTTACTAC TCTTATTTCT CTTTTGTATT GTTGTGTTGG AAGCACAGCA TCAGAAAAAC 21 3060 TCCCAGTTTT GAGAGATAAC TCAGTGTTTA GTTCACTTAA ACCTGAGAAA GGAGAAGAGG 213120 ATGCCACCGT GAGGTCCAGG ACGTAAAGAG GAAAAAAACA GACAAAAAAA TCCATATGAA 213180 ATGAAAATGT GAAAGAGGCG CTTTCGAGCA GATGAGTGTT GTAGATTACA GTGTTGAGAG 213240 CTGTTTGTGT CCAGAGCTGC TTGCTGCACC TGGCGGGATA AACACTGGTC TAACAGAGGA 213300 TCCTTGTTTC AAGGAGGCTG CCTTTTATTT GGGGGGACAA AATTGTTCTT GAAAGCTGCT 213360 CAGTGGTTCA AGCTACAGCA TGGTGGACTA GCAGAATGGA CTCCAGGGCC TCCGAGGAGA 213420 CAGTGACTGC TGCCAGAAAT AGTCAAGGAT AGAAAGGAAG GACTTCACTG AGGCCTGGGA 213480 GAAGATTATG GAATGGGACT GACAGCAGTG ACGGGGAGTA AAAGGGGGGTG TCTGGGGGAA 213540 TTGTGCCCCA TGGTGAGAGC TAGAGGGTTC ACAAAGACTT AACCCGACGC ATCTCTCTCA 213600 CCCTGGAGAT TGGGCCCGTT CAATCTAACT GGATGGCTAT AATTTAAAAG GTTTAGGTAT 213660

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

TATGACAAAC ATGGATATAT TAGGTGATAG CAATGCAAAA TGCATATGGC TTCTTGATAT 213720

AAAACACAAG ACTTGAAAGC AGCATCTTTG GCTGGGTACT ACAGCCACCC TCCTCTGTCA 213780

CTAAGGGAGG CTTTGGTGGA AAGGGCTGAG AGCCTCTAGA CTGTGAACAA AAGTAGGCAC 213840

AGAAGAACAG TTGGAGATAA TAAGTAAACC ATCTTGACAG GAATGAAGAA TTTCCTGAAA 213900

GGAAGGTCCC TGAGTTAGGT TGTTGGATGC TTTCAGTAGT GAGTTATTGA AAGTGTTTGG 213960

GGGGTGTGTG TGTGTGTGT TATGTGCAGT ATGTGTGTGT 214000

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Inventors: Anna Helgadottir

Amino acid sequence of FLAP (>alox5ap\_protein translation NM\_01629)
MDQETVGNVVLLAIVTLISVVQNGFFAHKVEHESRTQN
GRSFQRTGTLAFERVYTANQNCVDAYPTFLAVLWSAGL
LCSQVPAAFAGLMYLFVRQKYFVGYLGERTQSTPGYIFGK
RIILFLFLMSVAGIFNYYLIFFFGSDFENYIKTISTTISPLLLIP
(SEQ ID NO: 2)

## MRNA of FLAP (NM\_001629\_mRNA)

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SNP name

SNP amplimers

SG13S421

GATTATATCCCACCTACCACTGCAGCTCCAGGATCCAGCTTCACAA ACATTTGTTGAATGAATGAATAAGAAAAGAGGACACCCCCAAAGAGGCT GCAAGGGAAAAAGCTACAAAGACAGAAGCACCAGGAAAAAGTAGGGTC ATGTAAGTCAAAGCAGGAAAAAAGTTCCATGGTGGGGTGGTCAGCAGTGT CTAAT[A/G]CCACGAAGGCACAAAGTAGGATAAAAGTTAAAAATCAGCCT TTGGTTTTGGCAAATATGAAGCTTATCGGTAGCCTTAGCGAGAACAATTCC ATCAGGGAGCAGAAGCTAACTGCAGTGGGTTGAGTCATCAAGCAGCAT AAGGAAGTAGGGATACCCCATTATAAGCTACTCTTTCAAGAAGCTCAAAT CTGAAG SG13S417

ACAAAATTACCATCATATGCTGTCATGCATGTCTGCCAGTCTATTT
ATCATATTATTAAGAAACAAACATTTATTGAAGATTTATCATGTGCTCAG
CACTGCCAAAGAGGAAATAAAGAGCATAATATCTATTCTTAGAAAATAAC
ATTAACACAAATAGAAAACAAGAAACCATAATGTTAAAAATATTACATAG
[C/T]AACACAGAAAGACAATGTATAATTATACATACGCACTAAAGCAAAG
ATAACATAATTTATAAATTATGAGGTACAGAATAGTTAGATTCTGAAAAT
TAAAATAATCAGGAAAAACTTCATGAAGATGAGATCTGGGCTGGATCCCA
AAGGATAGGCAGGTGGATCATGTAGAACAGGGGAAAGGAGTTCCTGATC
GG
SG13S418

AACTAAAGAAAGCCACAAAAAGTTCACCTCAATGCCAAGACATTTCT
TGATTTTTGAAAACCCAGTTGTCGAACCACCCATCTATAGAAACTTGAAA
GACTAAAAACTATCTTACTCTAAACATTTTCTAGGAAGTTGATTCTACAAC
ACATTTTGGTTTTCCAATTTGGCTTCTAATAATTATTTCAAAGTTTCTGTG[
A/G]CCTAAATTTTGTTTTACATTGATCCTTTGAATGGACTACTGTTTCCACA
TTTTAGAACATTTAAAAAGATATCTACAACCCGAGTCTAATCATAAAAAA
AATCAGACAGATCCAAAAATGTGGAACATTCCACTAAAAAAGGAGTGGGG
AGAGGTCTTTATTCTTCCAAAAAATATCAATGCCATAAAAAGACAAAGACG
SG13S44

ACCCTTCAACCCCAGCCCAGCTGCTAACTGACTACAGCCACATGAA
CAGAACCAGGTGAGACCAGAGGAAACTTCCAGTCACCTACCAGATCATGA
CAAATAATAAACGATGTTTTTTTAAACCACAAAGATTTGGAGCAGCATTTG
TTACACAAAATTAGACAACTATTACAGTTCGACTAAAAACATGTTCATTTA
C[A/G]ATACTAAATTAGAAGTGTAAGAATGGGAGAAAAACTTCATACTTTA
AAAGTCATTTTTTCCTCCAAAAACTTCCAACTTTGAAAAACTGATTTTTAT
AATGCATAAAAATTAAAATAACCTTAGAATTTATATGAGTAGCATAGCCA
GCTGGCTTTATTATCTGTTGTACTCAACACTTCAATAATCACTGATGTTT
SG13S45

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

## SG13S46

GCTGATCTTGAATTCCTGGGCTGAAGCAATCTGCCTGCCCTGGCCT CTCCAAGTGTTAGGATTACAGGTATAAGCCACCGTGCAGCCTTATATTTTG TTTTAAATTTTCCTCTGTATTTTTCTCTCTGGCAAATTGTTTAGGGAGTTTC TTTAGTTTATCAGACTAAATTTCAAGGCTTTCCTTCCAATTTTGACATG[C/T ]AAACAGTCCCTCATTTCTGCTTATCTAGTGATTATTCCCAAATCTGTGTTT ACAGTCTAGCTGTCTCTCTGAGATTAAGACTTGTTTCTCTAACTACCTGA CGGCAGAATCTCCTCTTGGAAGTATCAAGGAGGCAGTTCAAAACTGAACT GGGCATTGGCTCCACTCCTTCTCTTTTACTATTAATACCC SG13S52

TAAGTCTTATTTAGGCATCGTTTCTTCTGGGAGACCTTTGTAGAATC
TCTGAGGTTATGTTAACATGCTAAGGTTTTCTTGACATTCTCAGATTGGGT
TAGGTGAACTTTTAGCAACTTATCTTTTTACTAAAAAGTCATCCCTCAGTA
TCTGTGGGGAATTGGTTCTAGGACTCCCTAAGGATATCAAAATCTGCAT[A/G]AGCAGCCCAGGTGAGACCAGCAGAAGCACTTTACAGTCACCTACAGGA
TCATGACAAATAATAAATCATGTTTAAGCCACAAAGTCCTTTACATAAAA
TGGTATAGTATTTGCATATAACCTACACATCTTCCTGTATCCTTTAAATCAT
CTCTAGTTTATAATACCTCATACGATGAAAATACTACGTAAAATAGTT
SG13S53

GTTTTGTTTTTCTGACAGTATGGTCTCTGTGGTCCAGGCTGGAGTGC AGAGGCACAATATCAGGTCCCTGCAGTCTCTACCTCCCAGGATCAAGCCA TTTTCATGCCTCATCCTCCTGAGTAGCTGGGATTACAGGCATGTGCCACCA CACCCTCGAACTCCTGACCTCAAGTGATCTGCTTGCCTCAGCCTCCCAAA[

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G/T]TGCTGGGATTAGAGGTGTGAGCCACTGTGCCTAGCCTTACACATTGTT
TTCTTACTGGTAAAGTGGGAATATCTAGAAGTTGCATGCTACATAAATTCA
ACCATATATTATTGGCAAAAAATTTTAAAGAAAAACATCAGCTTAAGAGT
ACTAATTGAGTACATGCCTTGGAATGAGCATGAGCTGGAAAGAACAAA
SG13S57

GGCAAAAATTTTAAAGAAAAACATCAGCTTAAGAGTACTAATTG
AGTACATGCCTTGGAATGAGCATGAGCTGGAAAGAACAAACCTGTTGTTA
CATCACTCATTGCTGTTTTCATATGCTGCTCATTGTAAATCTTGCTCAGTGG
CATGATTTTAGTGTTTAAAGATTTATTTGTTTGTTTTATGTTTAGGACAAAGTC[
C/T]CTACACATAATCTACTTGCTTCATATATACATACTTATGCATATTATGT
ATGTACATACATGCTCCAGGGCTCACATGAAAAAACAGCCATTCAGGTG
ATGTGATTTATCTCATATGCTTACTTTAGAGTCAACAGGGTGTTGACTCCA
CTATACAATACTGGCATGGAGAACACATAAGTCAAAGTAGACAGGAC
SG13S58

TCTGTCACCCAGGCTGGAGTGCAGTGGCATGATCATGTCTCCTTGC AGCCTTGACTTCCCTGGCTCAGGTGGGCCTCCACCTCAGTCTCCCAAGTA GCTGGAACTACAGTCGTCACCACCATAGCCAGCTAAGATAGTGAGATGG TGGCCCCACTGTCTTGCCCAGGCTGGACTCGATTTCCTGGGTGCAAGCACC [C/G]TTCCCGCCTCAGCCTCCCAAAGTGCTGGGATTACAGGCATGAGTCAC CATTCCAGCCTACTTGTCTTTAATTCTTAAAAATATTAATGTTGAGTTTTGT CTCCCAGCATGTGGGAAAGATGTCATCCATTGCTTCTGTTTCCTGGAGGCC TGGGAGCAAGGAGCCCAGGAACAGTATCACGAAGCTTGAGATAATAC SG13S60

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S61

GTTTCTAACATTATAGACACTAGTTTTAGGCTCTTGGAGGCTAGCA GCAATTCTCAGAGGTAATGCAAGCTTCCCCATTTCTTCCCGTAGTCCTGTG AAAGACCAGCCACCTCCAGAAGCCTACACATGAGTCTTCTCAGCCATACT TTCTGCTTTTCCTAATGCCTCTCAGCAGCGTATTAGAAAGGCCATGATCGA [C/T]GTACCTGTTACCTTCAGGCTTTGCATAAGGTGTATATGAAACATAAT GAATTTCGTGTTTAGGCTCAGGTCCCATCCCCAGGTTACCTCTTTATCTTG GAGACACTTCTGGTCCCATACATTTCAGATAAGAGATATTCAACCTGTACC CACCACGTAAGGAGAGAGAATAGGTTTTAGAAGAGGAGTCAGGGAGGCA SG13S62

SG13S420

TAAATGATCATTATGTTCATATTCACACATACAATAATGTACTCAA GTTTATTGCTAAGGTAATTCAGAATCTCCTTATTTTGAAGTGTGCATTTGA TATACCTGTTTGGGAATAACTAGTTTCTTATCTTTGACAGAAAATAATTTT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GTTGTTTTGTTTTTACTAAAAAAGCATGGTGAAAAATGGCTCCATTTCTA[A /T]GAGAGGTAACTAAAATATCGCAATTTGCTGGGTGTCATTAAAGTAACT CACAAGGGAAAAAATGCAAATTGGTATCTGCTGATGGAGTAAATCTCCGC AGAAGTGATGACCCTGAAAGGATCAATATATTAAAGCCCCTCCCAGCTGG TCATTCCAGATTGCAACAATAAAGCATTAAGTGTTAAAACCTCAAGGCA SG13S66

TAGGACTAGATGGAAGGCAAAAAAAGGAAATAACCTTTAAGCATG
CTCTCGATTCCTTAAATCCCATCTGAAAGTCTTAAGGATGTCTTCTCAGTC
ATACTTATTTGACAATATTACCTAATTTTCTCCATTAGCCCAAGCTCAGGG
GTCTTTCTTCTTCCATATTCACATGGGTGCAATGGTTTTCTGAAAGGAAAA[
C/T]AGCATTACTAGGGCAGTAACATTTAATTAATCACAGGTACTTATCAAA
CTACAAAACAGGCATTCCAGGAACTGGGTGTTTCTGTTTGTAAAATTACA
CTCTCGTGTACATGCTCCCACTAAAATGTAAGTTCGCTGAGGATGGAGGTT
TTGGTCTCTTTGCTCTGTGCTGTAACCCCCAACACTGCAGCAGGGCCTG
SG13S69

SG13S70

GGGGTAAATGCTGACTGCCTGTTCTCTGGACAGGAATGGAGAAGA
TGGTGCTAGCAGGGTTGCTGTTCATATGTAGACATTCATGCAGTCACTCTC
TTTTCAGCACACTTCTTACTTCTGCCCTGGGTTCAGTTGCTGACTCTGAGCC
CAGAAACCTTCTAGGGTTCTGTTAGGTAGATTGGCTTCCACCGTCTTTGC[
A/G]ACAACCACAGAAAATTCTAGACTGTTTTCTCTTCGGGCTTCATTAGTC
AACTTGCTTCAGTCTGTCTTGCATCTTCTAAATATTTATAGATCTCTCTT
TTGTTGGAGTGGCAGAAAATGCTAGTTGACCACCCAATATTCAAATTATC
CTGCCTCCTTAATAACAGAATATCATTGGATGTGGTGGGTAAATAAT
SG13S71

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ATATTCAAATTATCCTGCCTCCTTAATAACAGAATATCATTGGATGTGGTG GGTAAATAATATACCCTAACTTTCCTTGCAGAGAGGGGTGGCCAA SG13S72

TCTTTTGCCCTGCCTTTCTGCCTTTCTGTCCTTTTAATTTGCGGGCTT
TTGGCAACCACAGCACGGGTCTGGTTTCCTAGGAGTTTCTTTTGTAGGATC
AAACCGCTAGTTGGCTCTTGGCCCTGTGATAGGGCCCTGGGCTAACTTATT
GGGAAAATGTTGCTGTAACCCCTGCCCAGAGGTGCCTGTGACATGGGC[C/
T]GCCATCTTCTCCTCTTCCCTTGGCTTCAGCCCCACCTAGAAACCTGAACA
AACATTTTCCTTGACATTTCATAAAGTGTCAGTGGCTCCTCATTTAGCAAA
ATACATCCCAGGGAAGTTCAAAAGTGAAAAAAAGGCCGTAACTTCTTCTTC
TTCTCAGGGACCTACAGAAAATATGTGGCACCTCGGCAGCCTGGCC
SG13S382

CATGGATTTTGTTTTCCAAGTGGCAAGATGGCGCCTCCACCTTTGGT ATCCTATTTTAGTTCCTGGCAGAAAGAAAGGAACAGGCTAATGGCCCTGA TGAGTCTACCCCCTTTTAACAGGAGAAAATTTAAAAAACAAAAACCATGA AACCCTTTCCCAGAGGCAACAACCAGAATTCCATTTATCTTTCATTGACCA [A/G]AACAGACCACATGGTCACTGGTGGTGGCAATGGAGACTGGGGAGAT GAATATTTTAAGGTGGCATATTCCAGAAGAACACTGTGCACTGATTGCAT TAATGAACCCATTAATGTGCCAAGGGGAGGTTTACCTATGAGCATGGGCA AATTAGAACCCACTCTTGGAGCTGCAGGTGAGCCAATCCCACCTAAACAG SG13S383

TGGTGGTGGCAATGGAGACTGGGGAGATGAATATTTTTAAGGTGGC
ATATTCCAGAAGAACACTGTGCACTGATTGCATTAATGAACCCATTAATG
TGCCAAGGGGAGGTTTACCTATGAGCATGGGCAAATTAGAACCCACTCTT
GGAGCTGCAGGTGAGCCAATCCCACCTAAACAGTGTGGATGCTACAAGAT
GG[A/G]GAAGTAAATTGATTCTATTCCATACCCTAACCTCTCTCCAAGATG
TATTCTTAAAATAGAAGAGGGAAGACAGAAGAAAACATCCAGAATATATT
TTTATTGTCTTTTACTTCTTCAGTGCATTTTAGATCAGTGCTTCTCAATCTG
GCAAGGGGCATGCAGGAGGATGTGAGTTTTATCAGGAAAACTACACAAC
C
SG13S384

TGAGCCAATCCCACCTAAACAGTGTGGATGCTACAAGATGGGGAA

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GTAAATTGATTCTATTCCATACCCTAACCTCTCTCCAAGATGTATTCTTAA
AATAGAAGAGGGAAGACAGAAGAAAACATCCAGAATATATTTTTATTGTC
TTTTACTTCTCAGTGCATTTTAGATCAGTGCTTCTCAATCTGGCAAGGGG
C[A/G]TGCAGGAGGATGTGAGTTTTATCAGGAAAACTACACACCCCCA
ACCACAATGCTACCCCCACTCCTGTGGACCTTCTTTAAGAGAGACTCACTA
TTATAGATGGAGTTGATACGATTTTAAGAGAGGCCATATATTATTTGCTTT
CTGTCTTGAAAAAACTTGTGATTTTCTGTATTGTGCTACTGCCAAAGAGA
SG13S381

GGGTTGCAGTGAGCAGAGATCACACCATTGCACTCCAGCCTGGGTG
GCAGAGCGAGATTCTGTCTAAAAAACAACACCGTATTTGGGGCATGCTGA
TAGTAAAAAATTATTCATTGTTTGTCTGAAATTAAAATTTAAATTGGGGGC
CCTGTATTTTACTGGGCAACCCATTTGCAATATCAGCAACAATCTCTTATT[
C/G]AGACCACTGATTAAGTGTGCAAAATTTGAATCTCTGAACAGTACCTA
TGTCCTTGATATCTTAAATTAATGAGTGTCTTAGACACTCAAAGCAGGAGG
AAGCATTATGGCAGATGTTTGAGCCCCAGAGATGTCCATGAGCACAGCAT
AGAGCTCAGAGCCTTCTTTATTATTTTGCTTCACGACAGAGCAAAAGGACT
SG13S366

CATTTGCAATATCAGCAACAATCTCTTATTCAGACCACTGATTAAG
TGTGCAAAATTTGAATCTCTGAACAGTACCTATGTCCTTGATATCTTAAAT
TAATGAGTGTCTTAGACACTCAAAGCAGGAGGAAGCATTATGGCAGATGT
TTGAGCCCCAGAGATGTCCATGAGCACAGCATAGAGCTCAGAGCCTTCTT
T[A/G]TTATTTGCTTCACGACAGAGCAAAGGACTGCAGCAGGTTGACTGAT
ATAAAAGTTTTACCATGTCTCACAGCAGGCCTTTGCTCAAGTTTCCAGTAA
GGATATTGTATCATTTCTTGCCTGCAGTACTTGTAAATCCACTTACACTGC
CTGCTGTTGAGTCATTTGTTTCGTCTTGAGTAGCATGTCATCCTTGTTC
SG13S385

TTGCAGTTCTCATTGCTGGGGAGTCTAAACTGGAATAAAACACCCA
CTATCTCCATCAGGCTTGCACTAGAGCCCAGCTCTAGCTGGAGAGAAAGA
AGCTAACCCGCACAGACACAGGACTGTAGGCAGGGAGCATCCGGGGGTA
TTTGGGTCCTGGCTCTGATGTGCCTAAGGCCAACTTCTCTCTGGCCATGCT
GG[C/T]GTGCATGAGCTCACTAATCTTCCTTTTTGCCTTCCATTTTCTCCAA
TCCTGACTTAGCAAAGGTTGGGCAAAAGAGACTCTGTGTGAGTTCGAGCA
AAGCCTGAGATGCTGGATTTTCCAAGATACGAGAAGGGGCTGGGGGCTGG
GTGAACTGGTGGGGGGGGAGGGAAGGATTAATTTCCCAAGGAGGGGAAG
GG

## SG13S386

CATGCCTCCTACAAATTTGACCTGGGCCCAGGGCCATGTTCGGTGG
TTTTTAAGAACCGAGGCTCCCAGAAGCAGTATTGGGCAGCTAGAGTGGCC
CCAGGATCTATATCAAACTCTACCTGTTTCTGAACCAAATTTCTTCTAGAA
TTTTATTCCATAAATCTGAATTATGGTGTCAGACTCCTAGCATACACTAAA[

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

TCTTATTTCACAACCTTCTAAAACACAATCTCTCAACCTCTATTGTT
AGCTTGCATTTTTCAATCATGAGCACAGCTTTACCTGGCTCCATGCTTTGA
TTGACTCTACCTGCCAACACTGCAACAACAGGGAAAGGGACACCGGCCTC
ATACCATTAGATGGTGTAGCCTGGGCATGAGGATAATTAAAAACTCCC[
A/T]AGGGGATTTTAACATGTAACACAGTTTGGAAACCATTGATGTAAGAT
CTTCTTACTCAACATGTGCTCCAAGGAGCTGTTGTATCAGCTTATCAGAAA
TGTAGATCAGGCCGCACTTGGACCTGTAGAATCAGAATCTGCATTTTATCA
GATTCCGACATTATTTGTATGAACATTAGCTTTTGAGAAGTGTTGCTT
SG13S3

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S368

GTGGCTCACAGAACTCAGGGAAACACAGCTACCAGTTTATTGCGA AGGACATTTTAAAGGATAAAAGTAGGCAGATAAAGAGATGCATAGGGCG AGGTGTGGAAAGGTCCCTAGTGCAGGAGCTTCTGTCCATGTGGAGCGGGG GTGCACCACCCTCTCAGTACATGAATGAGTTCTCCTTCACCTGCCTATCAG CCT[C/T]TACATGTTCAGCTCCCCAACCCAGTCCTCTTGGGTTTTTATGGAA GCTTCAAGACACCCACATTCTTTCCCCAGAGTATAGGGCAAGACCTTCTCT GGGGAGGGTTTTAAGACCCACAGTCAGAAAGGTGGGGTGGGGTCAAGAT TAGAGTCCTGCCTTGACGGGCAGGTGAAAGGGTAGGGGGAGTAGGTGA

SG13S369

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GGGATAATCATACCGCTTCAAAGGGATGTCATAAAGATTAAATATGT[
A/G]TAAGGCTGCTTGCATTTAGCTGCATTCAACAAATATTTCTGTATCTTT
CTCCTCATTTCTCCTTACTTTCTTGCTTATTATCTGCTCTAGGTATAGATTTC
AGAGAACTAAGCTTGTTACAATCCTTCATAAAATAACCAGGTTTGGTTAGG
GCATTTCCAAGAGTCAATACTGTTTAGTGACTATTCTCTGTTTAAT
SG13S90

CCTGGGTTCAAGCAATTCTCCTGCCTCAGCCTCCCAAGTAGCTGGG
ACTACAGGCACATGCCACCACGCCCAGATAATTTTCGTATTTTTAGTAGAG
ACGGGGTTTCCCCTTGTTGGCCAGGGTGGTCTTGATCTCTTGACCTCATGA
TCCGCCCACCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCACC[
A/G]CGCCCGGCCTCTAGAGGATAATTTTTAAATGTGCTTTTGCATTTGGAA
AATGTGATTGGCATTTTTTCTAATTTTCTAATATGATACGCTGTCGGATGC
TATGGATTACTTAAACCCTCTGGCTACCTAGAAAGATCTTTAAGTGGTTCT
CAACAAGCTTCATACGCAATGTAAATTGTATTATCTCTCAGGATGT
SG13S6

TGTGATTGGCATTTTTTTCTAATTTTCTAATATGATACGCTGTCGGA
TGCTATGGATTACTTAAACCCTCTGGCTACCTAGAAAGATCTTTAAGTGGT
TCTCAACAAGCTTCATACGCAATGTAAATTGTATTATCTCTCAGGATGTGT
GAGAACATCTGTTTTTCTTCTAATGCAGTAAACATATAAGGGTCTCTTG[A/
G]GATATCTTTTAAATAGACTTAATACAACATTCAGGAATGATAACAAAAT
ATAATCACAGTTGTAAGGGAATGTGAGCATTTCATATTAATAACATTGGA
ACCTTATGTTTAATACAGTGTTAAAAAGTTGACAAACATGTAGGAGTCAGA
AAATTCAATTAAAAATTATCACAGTAATATGAATTTAGCCACATCCTGT
SG13S391

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S371

CCTACAAATCTCATGTTGACATTTTATCCCTAATATTGGAGGCAGG
GCCTAGTAGGAGGTGTTTTGGTCATAGTGATAAATGGCTTGGTGCCGTTCT
CACAGTAACGAGTGAGTTTTTATTCTAGTGGTTCCTGCAAGAACTGATTGT
TAAAAGAGCTTGGATCCTTCCACCCCTCTCTCACTCTTGCTTCCTCTC[A/
T]CACCTTGTAATCTCTACAAGCTCTTCACCTCCCCTTCTCCTTTTGCCATA
AGTGGAAGATTTCTGAGGCCTCACCAGAAGCAGATGTTGGTTCCATGCTT
CTTGTACAGCCTGCAGAACCATGAGCCAAATCAACTTCTTTTCTTTATAAT
TATCCAGTCTCAGGTATTCCTTTATAGCAACACAAATGGACTAAGA
SG13S373

GTTGTTTCCAGCTTTGAACTATTTTGAATCCTAAAAGACTGCCAGTT
TTGAATGAGACCCCAGAACAATGAATGTAGGCTCTGTATACAAGTTCAGG
CTGCTGGGCAACTTAGGCCTTAAGACACAACTCTGCCACTTAGGCCTTAA
GACACAACTGACATGATGGTGCTTAAAGTGGCTGTGATGGAAAAGGAGG
CT[A/G]TTTGGAGCCTTTGGAGTGCCTTTATAGGTGAACCCCAGCATAGCA
CCTAATGATTTGGAGCAAAGCTGTGTCATTCCCCAAAGATAACTATTCGCC
TTTTGAGAAACATCTTCTAGCTACTATCAATAATAAACACAGAATGCATC
ACCATGGGCCACCGTGTTGTCTTTTGACCTGAGTTTCCATTGTGAACAAGA
SG13S374

AACTCTGCCACTTAGGCCTTAAGACACAACTGACATGATGGTGCTT
AAAGTGGCTGTGATGGAAAAGGAGGCTGTTTGGAGCCTTTTGGAGTGCCTT
TATAGGTGAACCCCAGCATAGCACCTAATGATTTGGAGCAAAGCTGTGTC
ATTCCCCAAAGATAACTATTCGCCTTTTGAGAAACATCTTCTAGCTACTAT
C[A/G]ATAATAAACACAGAATGCATCACCATGGGCCACCGTGTTGTCTTTT
GACCTGAGTTTCCATTGTGAACAAGAGTCATTTGATCCAAGGCAGAAAGT
TGGGTGCACACAGCAGTGTTCCATCATCAAATGGAATATGAGATTGGGCC
CAAGTAGGTCCTGCAGACACAAATAAGTTGCAAGAGCAAGTAGTACAGG
CG

SG13S375

GAAAAGGAGCTGTTTGGAGCCTTTGGAGTGCCTTTATAGGTGAAC CCCAGCATAGCACCTAATGATTTGGAGCAAAGCTGTCATTCCCCAAAG ATAACTATTCGCCTTTTGAGAAACATCTTCTAGCTACTATCAATAATAAAC

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Inventors: Anna Helgadottir

ACAGAATGCATCACCATGGGCCACCGTGTTGTCTTTTGACCTGAGTTTCCA [C/T]TGTGAACAAGAGTCATTTGATCCAAGGCAGAAAGTTGGGTGCACAC AGCAGTGTTCCATCAAATGGAATATGAGATTGGGCCCAAGTAGGTCC TGCAGACACAAATAAGTTGCAAGAGCAAGTAGTACAGGCGCTTGGCCTGG CCAGTACTGTTGCCAAGTTGACTGCTTCCCCTCAGTCTGCATCTGTGGCTT SG13S376

SG13S394

SG13S25

ACATGATTAGAAAACTGGTGACAAGGAGTCCTGGGGAAGAGGCAT
ATGGATACCTCTGAACACACACAAAACATGAGAATATGTATCCCATATGA
ATGTTAACCAAAGAGCAGCCACAACAGAAGAGGATTTTAAAATCAGCTG
AATAAGATGATTCATTCTGACAGCATCAGCTAGTCTCTTTCCCCAGCCACT
GTT[A/G]CCCAGTGGGCTTACATATATCATGGCCATGGGGGCAGGGCTATG
TATGGACACAGCAACATGAATTTCCACTCATCAAGGCCAATTTGGCTCCA
GCCATTGCTGAGTGCTCAGCCTGCCAAGATAGAAATCTACGCCAATATGG
CACCATTCCCTGGGCTAGAAAACCAACTGGTGGAAGGTTGATTACATTGG
ACC

SG13S395

GGGAATACAATGGTGGTTCCACTAAACTGACAGCTGAGTTTGCCAT
CTCCTCGTGCCAGTGAATACACAAGCAAGGAAGGGGGTTCCTTTCTCACC
TAGGGTGACTGATCCTAATTACCAAGGAGAAATTGGACTGCCACTTCACA
ATGAGGGTGAGGAGTATGTACTCTATGTGTCTGTGATTAATGTCAATAGA
AA[A/G]TGACACCAACCTAGTACACAGAGGACTGATCATGGTCCAGGCCC
TTCAGGAATGAAGATTTGAGTCACCAGGCAAGGAACTTGGACTCACTGAG
GAGGGCATATTCCAAGGAGAATATTTTATCTATGTCCATCTATGTCCATCT
ATATTCCATCTGTGTTCCCCTTGGAATTCCTATTCATGAACATGGGGAATT
C

SG13S396

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

A/C]CTCCTGGGCTCAACTGATTCTACCATTTAGTCCTCCGAGTAGCTGGGA CTACAGGCATGCACCACCATACCCAGCTGACCAGTTTTTTCCTATTCCTCT ACTTAATTTCTCTACTATACAACATAATATGTGTTAATGGTAGTTAACTTT ATATCTCAGTATTAAGTCACAAGATATCAAAAAAGGGAATGCGACTTA SG13S397

GCCAGGCTGTTCTCCAACTCCTGGACTCAAGCCATCCTCTAGCCT CGGCCTTCCAAAGTGCTGGGACTATAGGCGTGAGCCACGGTGCCAGGCCC TTGACCACATTTTTAACCCCTCTGAACCTCAGTTTCACTTTCTGGGCAATG GGAGGGGGTAATTTGTCCCTCAGAGGGTTGCACTGAGGGGCAAATGTGA G[C/G]CTCTGGGTACAATGCCCAGTACAGACTAGGTCCCCACGACACAGCC GCTCAGCGGCTCCGGATTCTGGGCTGCTCTGGACTGCGCCAGGCGGTCT TCTGCGGGAATCCGGGCAGGCAGGCGGCTGCGCTCCCCCCGGCTC TCCCGGTGCCCCTTGTCTTTTTGTTCTGTCTCAGCAGCTCTCTATTAAGAT SG13S100

TTTTTGTTCTGTCTCAGCAGCTCTCTATTAAGATGAATGGCATTTCC
AAAGGCTTCACCTCTGATAAGTGTTCCTCTGCAGCTGCAGCCAGAATCTTA
ATGTGCGCGCTGTAATTTAATGGCCGTCTCGGCTATTAACACGCTCTTCTC
GGGTGAAGTGGACTCCCTCCATCCCGGGCCTCTGCACGTGCTCTGCGC[A/
G]CTGGCTGGGGGTGACTCCAAGGAGCTCAGAGCGGGGTGCCCGGCACCT
CTCGCCAGGCGCCTTTCGACCTTCTAAAGCGCGAATGGCTGGACTTTTCTC
CCATGTGTGGGGCCCCAGAAGGTGTGGGGCCCCAGAAGGTGTGGGGTCCC
TGCGTTCCACGGAGCCCGGAAGGTTTCCAGTGATGGTGGGGGCTGACC
SG13S398

GGAGCCCGGAAGGTTTCCAGTGATGGTGGGGGCTGACCACGTTGG
TCCCCGTGGGTGCTGTTTTCATGTGCCGGCAGATTGGGATGAGTTTAAAAG
ACAGAAGCGTGTAGGATAGAGAAACTTCTTTAAAAACTGGAAATTTTAAT
CTGGGGATTATAACTATTGGACAGTCAAGTGCAAGAGTGAATACACTTCT
CA[C/G]TCCCTCCCCAATTTTTATTTGCGGGATTAGTCAGTCCCCCTCTG
CCACATGATAATTGTGAGAACTACCAGGGTCTTCATTCTCCTGCCATCTGG
TTGACCTCTCCAAGAATGGACACCCGGGCAGCCTGGGCCAATGAGGCTGT
CCTAAGAGTTTAGATGAGAGAAGTCAGTCTTTTGACAGGTGATGGAAGCTG

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

## SG13S94

TCCACCAGCAGCTTTTCTGAGTCTCCAGCTTGCAGATGGCAAACCA
TGAAACTTCATGGTGTCCATGAGCATGTGAACCAATTTCTATTATAAATCT
GCAATATATATATGAGGAGACTTATTTATATATTTGGTTCAGTTTCTCTG
GAGAGCCTTGGCTAATATAAAGTCTATACTCTACAAAGTGCCCTAGGTAC[
G/T]CAGGGAGTACCCAAGTGTGTCATGACCAGCCCGACAGCCCTGGCTGC
TGGCTTCCCCGCACACACTCTGCACGCTGCCTTCATCAGCCTTTCTCTC
CAGCTGAACCGAGGGCATTGAAGCGGGCCTCTGGCACTGTACCTATGAGG
GAGCAATATCTTCCCCTACACTGACCTCTTCCGTGCCGAGATGCAGCCC
SG13S102

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CTTCAGAAATTGTAATGATGAAAGAGTGCAAGCTCTCACTTCCCCT
TCCTGTACAGGGCAGGTTGTGCAGCTGGAGGCAGAGCAGTCCTCTCTGGG
GAGCCTGAAGCAAACATGGATCAAGAAACTGTAGGCAATGTTGTCCTGTT
GGCCATCGTCACCCTCATCAGCGTGGTCCAGAATGGTAAGGAAAGCCCTT
CA[A/C]TCAGGGAAGAACAGAAGGGGAGATTTTCTTTGATGGTTGTTTGGA
AGTCAGGCTTAAACAATTGTGTCTGTGTGTGCGCATGCACAAACACTTTTA
CCTTATCTTTATTTTCTTCTTTTTATTTGAATGTATAGGGTTGTGTGTATTTC
TGTGTAAATTTGGGGTTTTCCTCCTCTTTAGTCTTTCACTTTTTGTGGTG
SG13S105

GGAACTTTGAGTATTTAATCACTTTGGGATATTCTATTTTCCCCCAT CTTGAGTGTGGACAGATGCTGGTGATGTAGCCTTCTGGGCACAGAGCAAG CCTCCCCTCAGCCTCTGCACCAGAAAGGCTCAGCTTCACACACTCCAAGT ATGTTTTCTACAAGAACTACACTTTGTGGCTTTCTGACCCAAACATTTTT[A/G]TACTAAATTACACACAACAAAGTTGTAGCTCAGAGAGGGAACAAATGG CTTATTTAGGCCACCATTTTCTTGAGCCATTATGATTTCACACAGGGCTCC CTTGGCCCTGTAAATTGGCAAGGATTCCATTATTCAACCCGCATACATGTA CAGAGACCCTGCTCTGGCCCAGATAGTATTCTGGGTACAGGCGGATA SG13S108

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S109

GACAGGTCAGCCTGCAGCAATGCCTGCAGTCTCTGCAAAGGTAGCT
GTATGGGTGGCAGGTGGCTAGCACTTATTCAGCTCTGGAAGGATCTCCC
CTCTGGCCTCTCCCTGACACCCATCAATAAAACTGAGGAGCATCGGTGG
ACAGGGGACCTTGTGCCCCCTCCCTGCCTGTGCAGTTGGGGCTGAACCCA
GC[C/T]ACGAAGTTTGAGCTCACTCTCTCCAGCTCCCTCTCAATTCAGAGCT
GAACTGTGGGAAGCTTCAGAGCTCTCTGTTTCAAGGACAGGTTCTCCTCAC
CTCTCCTAATGGAGGTGCACCAGGGAACTGGCCCTGCTCTGCCCAGGGCT
TTCTCCTGGACTTTGCCATCATGGTCTAGCAAACCCTGTTCAGATTGAGG
SG13S112

CACTCTCCAGCTCCCTCTCAATTCAGAGCTGAACTGTGGGAAGC
TTCAGAGCTCTCTGTTTCAAGGACAGGTTCTCCTCACCTCTCCTAATGGAG
GTGCACCAGGGAACTGGCCCTGCTCTGCCCAGGGCTTTCTCCTGGACTTTG
CCATCATGGTCTAGCAAACCCTGTTCAGATTGAGGTGAGTGGGAGATTT[
C/T]GAATTCTTTTTGACAGATAGGATTAAGTCTTCTTCTGTGGGACAAGTG
GGAGGTAGAGGTAAGATTAAAGATGGCCAAATGTCTGAGTCCTGACAGCC
ACAATATGGAGATCTAGACTTTTTACAGACCACAGGGCACAGGGGCCTCA
CTAACAGAGTTCCCGGAAGTGATGAGTGTGCTGGGGGCTTCCTGGTTGA
SG13S113

AGTTGTCCTGCCTGTGTTCAGGAAGGGAGTTTCTGTGGTCCCTTTGA AACCACAGAAGAGCCCCTCGTATAGCTCTCAATGGAGGGGGCAAAACATT CAAATAACTCAGGAGATAACACAACTATTTGTTTTTAACTGTGAGTTTTTA GGCAATCACAAAGATCCAGATGTATGTCCAAGCCTCTCTTTGCAATTCTA[

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

A/T]TTAACCTCAATGTTGCAACCATAGACCTACCTTACAGAGTTCAAAAA AATATGCAAAAACCCTGCCTTTCTTCTTCCTCATACCCCAAAATGCCATTC TGAACATTTCCTGTTAGTTAAAAAAAAGATTTCCATGGTGTTACCAGGCACT GTACACAGTCTGTGTCCCAAGACAAGGAGGTACAGTTCCACATGCGCC SG13S115

SG13S118

SG13S119

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ATAAGGGTTTGTGAGCATAGTGCTAAGGAGGGAAATGGAGCTGCTGTTAC TA SG13S120

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GATAACCTCCACCTGTGGTTGCTGAAGGTCTTGCACAAGATGATATAGTT
AAAGTAGCTAGCAGTGCCCACGTACGGCGGATGCCTCACAACGGTTTGC[
A/C]GCCATCTCTCTATCTGTGTCTTTGTCTCTCTCACACTGGTTTTGGCT
TACTGTTAGCAGCTAGCCGAGATAAGTGTGTTTATGGTCTTTGCATGTATT
GTTTCTGTAGCATACTGGAGGATTACAAGAGGTTGGGGAGTGAGGGGGCG
GTGAGGAGTAGACAAAGGCAGCCAACTCTTCCAAGTTTAGCTTAGAA
SG13S124

SG13S127

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S192

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S193

SG13S88

SG13S131

AAACAAGGGAGTGGGGATATGGGGCACATTGGTGGAGGAGGTG
TGATCTCTGCAGCTTCAGAAAGATCTGAAAGAGTCATTTGGTTAGAGAAG
TTGACCTATTTCCTGTGGGGTTAGACCAGGGTTGCTACTGTGAACACCAGC
CATGACTCACCAGTCACCTTCAGAAGCCACAGGCAGGACATGCTGACGAC
AG[C/T]CTTCAACTCACCCACCCCTTGCTCCCCTGCGGGTGGAAGTCTGGA
GGTGACACCACTGCATTTTCTAACACGGGGGCTCCTTGAGCAACTAGAAC
AAGAACAGAAAGAATGGGGACATTAGCAGGTGCTTTCCCCCTCTCATT
CTTTTCTTTGAATAAAAAAGGTTGTTTGAAAAACACCTGAGCGCTCCTAAAGA

SG13S132

SG13S133

TCTCCTCATCTAGGTATTTTTAATTGTTTCAGTGAGGTGTAGGCATG
AGGGGATTGGAGGGGCATCTCCTCCATTGCAGTTTTTCATTGGCTGCTTT
GCTCCCTCAGCTCCGAAATCGCTGGGCCACTCTCGAACGCATTAGTACGG
TAGTCACAGGTTGATTGCCTGGCCCCTTGCCCTCTGTGGGCATTTTCCCT[C
/T]TCAGACAGCCCCTGAGTACTCACAGTGCTGCTACAGTGGGCCACCTAG
ATCTCCCTCTTTCTCCATGCTCCCACGTGCTCTGGGCTCCACTCCCTTCTCC
CAAGCACTTCTGTCCAGGGCTATTCCAGCAGTCTGACCTCAAGGAAATCC
TTTGCTAAACTGATTATAGAGAGGTTTCTATTTTAACATTTAGGTCT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

## SG13S38

ATCTAGGTATTTTAATTGTTTCAGTGAGGTGTAGGCATGAGGGGA
TTGGAGGGGCATCTCCTCCATTGCAGTTTTCATTGGCTGCTTTGCTCCCT
CAGCTCCGAAATCGCTGGGCCACTCTCGAACGCATTAGTACGGTAGTCAC
AGGTTGATTGCCTGGCCCCTTGCCCTCTGTGGGCCACTTTCCCTTTCAGAC[A
/T]GCCCCTGAGTACTCACAGTGCTCCACAGTGGGCCACCTAGATCTCCCT
CTTTCTCCATGCTCCCACGTGCTCTGGGCTCCACTCCCTTCTCCCAAGCACT
TCTGTCCAGGGCTATTCCAGCAGTCTGACCTCAAGGAAATCCTTTGCTAAA
CTGATTATAGAGAGAGGTTTCTATTTTAACATTTAGGTCTTCCATGT
SG13S134

AGGTGTAGGCATGAGGGGGATTGGAGGGGGCATCTCCTCCATTGCA
GTTTTCATTGGCTGCTTTGCTCCCTCAGCTCCGAAATCGCTGGGCCACTC
TCGAACGCATTAGTACGGTAGTCACAGGTTGATTGCCTGGCCCCTTGCCCT
CTGTGGGCCATTTTCCCTTTCAGACAGCCCCTGAGTACTCACAGTGCTGCTA
[C/T]AGTGGGCCACCTAGATCTCCCTCTTTCTCCATGCTCCCACGTGCTCTG
GGCTCCACTCCCTTCTCCCAAGCACTTCTGTCCAGGGCTATTCCAGCAGTC
TGACCTCAAGGAAATCCTTTGCTAAACTGATTATAGAGAGGTTTCTATTTT
AACATTTAGGTCTTCCATGTATTAATTCTCAGAATCAATTTAAGATG
SG13S135

CCTTTCAGACAGCCCCTGAGTACTCACAGTGCTGCTACAGTGGGCC
ACCTAGATCTCCCTCTTTCTCCATGCTCCCACGTGCTCTGGGCTCCACTCCC
TTCTCCCAAGCACTTCTGTCCAGGGCTATTCCAGCAGTCTGACCTCAAGGA
AATCCTTTGCTAAACTGATTATAGAGAGGGTTTCTATTTTAACATTTAGG[C/
T]CTTCCATGTATTAATTCTCAGAATCAATTTAAGATGTTTAAAGGTGTGAT
TTAAGACATTTTAAAACCATTTGGAGGAGAGATACAGAAATTATGTCACTT
GCTGTCAGCCTCTTTGCACCATCTGCAGAGAAAGATACTAGAGTCCCGCC
TTGGACACATCCACATGCAAGAGGTGCAAAGAAGGTGTCTTTGATGA
SG13S136

GCAACATATCTGTGTGCCTGTCTGGGTTGTAAAAAGGGTCAAAGAT CAATGCAGCAGCAGCTACATGCTGGCAAAAGCCAGAGGCAGCTGGTCT GTTTGCCTGTGCCAGGAAACCACTGGGAATGGGGTTGTGTTATTCTAGG AGAAAGTCGTCCCAGCAGCAGCTTCTCCAGGGGCATCCAAGAGCACTGAA

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GTATTTTAGCATAAAACACAACTGCTGACTGATACAGATAGCTCA
AGATTCTGGGGCAGCTGCTGAACAGATACACTAGCCAGTGTGGCTCATCG
GCTCAGACTTGGCCTTAATTAATGGGCTGTCCCTCCACCCATCTCCCATGA
GGGCAGAGCTGAGCCAGGGTTTGAGAGCTAAAAGGAATTGGACCTGGAC
TC[A/G/T]GTTCACGTGTATATTTTAATTCTAATTAATTCATTCTTTTTGAAAG
ACAGAGTCACACTCTGTTGCCTAGGCTGGAGTGCAGTGGCACGATCTTGG
CTCACTGCAACCTCGGCCTCCCAGGTTCAAGTTATTCTCCTGCTTCAGCCT
CCTGAGTAGCTGGGATTATAGGCACATGCCCCCATGCCTGACTAATTTT
SG13S141

GCTAAAAGGAATTGGACCTGGACTCTGTTCACGTGTATATTTTAAT
TCTAATTAATTCATTCTTTTGAAAGACAGAGTCACACTCTGTTGCCTAGGC
TGGAGTGCAGTGGCACGATCTTGGCTCACTGCAACCTCGGCCTCCCAGGT
TCAAGTTATTCTCCTGCTTCAGCCTCCTGAGTAGCTGGGATTATAGGCACA
[C/T]GCCCCCATGCCTGACTAATTTTTGTATTTTTAGTAGAGACGGGGTTTC
ACCATGTCAGGCTGGTCTTGAACTCCTGACCTCAGGTTATCCACCCGCCTT
GGCCCCTCAAAGTGTTGGAATTACAGGTGTGAGCCACCGTGCCTGGCCTG
TTCACATGTATAAAACACAGTTTAATGTCCTATTCCCAGCCAATGAGC

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S39

AAAATCCAGAATAATAATAATTTGTCAATAGGAAAGACATTTCCAC
TGGGGGTTAAGAAGGAAGACATTGGAACAATGATAGCCACCACTTATTGA
ATGCTTACTGTGAGCCAGGTGGCACTTCACCTTGTTTCATTCTCACAACAG
TCTAGGGAAGTAATTACTAATGTCTCCATCCACCTCTTGTAGATGAGCAAA
[C/T]TGAGGCTCATTGAGGCTAGGAAATGCACCCACACTCACATAGCCCAT
AAGAGGCAGCCATGGCATTGGGCCCAGACCATGTGAACTTCAAAGACTAC
ACGAGCAGCCACTGGGCAGCTGTCATGGCTAAAGCCACTTGAATTCAGCC
CAGCAGCAACCCCCTCTCCAGGAGGGGCACATAAGCTTGCAGCTTTGGGT
SG13S143

ATAATAATTTGTCAATAGGAAAGACATTTCCACTGGGGGTTAA
GAAGGAAGACATTGGAACAATGATAGCCACCACTTATTGAATGCTTACTG
TGAGCCAGGTGGCACTTCACCTTGTTTCATTCTCACAACAGTCTAGGGAAG
TAATTACTAATGTCTCCATCCACCTCTTGTAGATGAGCAAACTGAGGCTCA
[C/T]TGAGGCTAGGAAATGCACCCACACTCACATAGCCCATAAGAGGCAG
CCATGGCATTGGGCCCAGACCATGTGAACTTCAAAGACTACACGAGCAGC
CACTGGGCAGCTGTCATGGCTAAAGCCACTTGAATTCAGCCCAGCAGCAA
CCCCCTCTCCAGGAGGGGCACATAAGCTTGCAGCTTTGGGTAGAAGCTGC
A

SG13S144

SG13S145

 ${\tt CCGTGTCCATTAGATCAGTGGAAATTCTGGGATTCAGAGCACTTTG}\\ {\tt CAAGGTCAGCAGGGGTCTGCTCTTTCTGTCCTGTTCCTGGTTTTTGGTTGTG}\\$ 

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CCTGGATTCCAGGGTAGGTTTCTCATCTGTTACCTTCATAGACTTCTCCAG AAAAGGATCTTTTGACCATCAGAGGACCACGAAGATTCCATTGGTGAGG[ C/T]GCAGATAACCTGATCTCTCTGGGTTCTCTGCAGGGCACAGATGAAGG GCTGGCCATTCCCAAGTTCTCAGTGGTACCACTGAGGCATGAGACCCTAA TGGTTTGCATGAGCAGTTTGAAAATTGCATCTTTGTTTTTACCTATATAATC ACATGAAACCCGTGGTTCTCAAACGTCAGCAGGCATCAGCATCACATG SG13S26

TCAGTGGTACCACTGAGGCATGAGACCCTAATGGTTTGCATGAGCA
GTTTGAAAATTGCATCTTTGTTTTTACCTATATAATCACATGAAACCCGTG
GTTCTCAAACGTCAGCAGGCATCAGCATCACATGGAGGGCTTGTTAAAAC
AGATTTCTGGGCCCCAACACAGAGTTTTAAATTCTGAAGGCCTGAGGTGG
G[C/T]GTGAACATTTGCATTTCTAACATGTTCTCGATGCTGCCGCCTCT
GGTCCCGAGAGCATGCCTGGAGAACTGCCACCTTCGACCATGGACTGTGA
GAATTCACATGGACCTCAGAATTATAATCAGTCTCTCAGTTTTACAGATAA
GGAAACTAAATCCAGAGAGATTGTTTTTGCCAATGGTGAACAGCTGGTTA
SG13S27

ATGGTTTGCATGAGCAGTTTGAAAAATTGCATCTTTGTTTTTACCTAT
ATAATCACATGAAACCCGTGGTTCTCAAACGTCAGCAGCATCAGCATCA
CATGGAGGGCTTGTTAAAACAGATTTCTGGGCCCCAACACAGAGTTTTAA
ATTCTGAAGGCCTGAGGTGGGTGTGAACATTTGCATTTCTAACATGTTCTC
[A/G]ATGCTGCTGCCGCCTCTGGTCCCGAGAGCATGCCTGGAGAACTGCCA
CCTTCGACCATGGACTGTGAGAATTCACATGGACCTCAGAATTATAATCA
GTCTCTCAGTTTTACAGATAAGGAAACTAAATCCAGAGAGATTGTTTTGCC
AATGGTGAACAGCTGGTTAAAGTCAGGATGGAGACTTTAATCCTAGTCA
SG13S147

GAGCAGTTTGAAAATTGCATCTTTGTTTTTACCTATATAATCACATG
AAACCCGTGGTTCTCAAACGTCAGCAGCATCAGCATCACATGGAGGGCT
TGTTAAAACAGATTTCTGGGCCCCAACACAGAGTTTTAAATTCTGAAGGC
CTGAGGTGGGTGTGAACATTTGCATTTCTAACATGTTCTCGATGCTGCTGC[
C/T]GCCTCTGGTCCCGAGAGCATGCCTGGAGAACTGCCACCTTCGACCAT
GGACTGTGAGAATTCACATGGACCTCAGAATTATAATCAGTCTCTCAGTTT
TACAGATAAGGAAACTAAATCCAGAGAGATTGTTTTGCCAATGGTGAACA
GCTGGTTAAAGTCAGGATGGAGACTTTAATCCTAGTCAAGTGACCTTTC
SG13S28

AGTTTGAAAATTGCATCTTTGTTTTTACCTATATAATCACATGAAAC CCGTGGTTCTCAAACGTCAGCAGCATCAGCATCACATGGAGGCTTGTT AAAACAGATTTCTGGGCCCCAACACAGAGTTTTAAATTCTGAAGGCCTGA GGTGGGTGTGAACATTTGCATTTCTAACATGTTCTCGATGCTGCTGCCGCC [G/T]CTGGTCCCGAGAGCATGCCTGGAGAACTGCCACCTTCGACCATGGAC TGTGAGAATTCACATGGACCTCAGAATTATAATCAGTCTCTCAGTTTTACA GATAAGGAAACTAAATCCAGAGAGATTGTTTTGCCAATGGTGAACAGCTG GTTAAAGTCAGGATGGAGACTTTAATCCTAGTCAAGTGACCTTTCCTCT SG13S148

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GATCTGCCTGCCTCAGCCTCCCAAATTGCTGGGATTACAAGGCGTG
TTGTTTTAAGCCACTCAGTTTGTGGCCACTTGTTACAGCAGCAAGAGAA
ACTCATACAGTTATCATGTGAACTCACAGGAATATGGTGAGTTAAAAAGA
GAGGAAGGGTGCAAAACATCCACGGTAGAGTGAGAACTCTCCAGGGAGT
GAG[A/G]ACTGTGCCCAGCATACAGTGATCACCCTCTTAGTAAGCTAAGTT
TCTGAGCACCAGCTTTTTTGAGTTGACTTTGTTGTCTTTAACATTTGAAGAT
CACCCTTCTTTGCTCAGCCTGGCTTGCAGACCTGGGCTGATTTGTGGATCT
GATAGAAAAGTTTCCTTAGTTGGGCTCTTCTCCCCGACCACCCCCATGCC
SG13S29

TGCCTCAGCCTCCCAAATTGCTGGGATTACAAGGCGTGTTGTTTAAGCCACTCAGTTTGTGGCCACTTGTTACAGCAGCAAGAGGAAACTCATACAGCACTCAGTTATCATGTGAACTCACAGGAATATGGTGAGTTAAAAAGAGAGGAAGGGTGCAAAACATCCACGGTAGAGTGAGAACTCTCCAGGGAGTGAGGACTGTGC[A/C]CAGCATACAGTGATCACCCTCTTAGTAAGCTAAGTTTCTGAGCACCAGCTTTTTTGAGTTGACTTTGTTGTTTTAACATTTGAAGATCACCCTTCTTTGCTCAGCCTGGCTTGCAGACCTGGGCTGATTTGTGGATCTGATAGAAAAGTTTCCTTAGTTGGGCTCTTCTCCCCGACCACCCCCATGCCAGTGTGGCSG13S89

ACAGTTATCAGCAGCCCACAGGCTTGACTTGAGCAAGTTGGAAAG
ACAAATCAACTTCCAGAGTTGATTTAACATTGAGTGGAAATCAGTCATAC
TTTTGGTCCCCTTTCGGGGCCACGCCTGGCACTGTGCCTGGTGGCAGATCG
GCATGAACTGGCCAGCTTCTGTGGCCCTGGAGGGCACAGGCAGAAAGGCC
AC[A/G]CTCAGTCCCATGATGAACTGTTTAAGACTTATTGTTGTCTCCCCGC
TCTGTAAAGTAGATAGAGTGGATTTTATGTCCCTTATTACCTTTCAGGATA
CTTTGACTCAGGGAGATAAAGTAACTTGGGTACAGCTACTCAGCTGGTGA
AGAACACAGGCAGAATGAGTGCCTGGGTCTTTTGACTTAAAATTCTGGAT
SG13S150

CTGTGCCTGGTGGCAGATCGGCATGAACTGGCCAGCTTCTGTGGCC CTGGAGGCACAGGCAGAAAGGCCACACTCAGTCCCATGATGAACTGTTT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

AAGTTCAGTGATAGAGAGCAGAGGTGAGGCGGCAGCAGAAACCAC
TTAAGGGACACCACGTGGCACTCCTTCTGTGCTGAGAAGGCTGTCAGTAA
GCTCACCATTTATTTCCTATTTTCTCTCTCTGAGTTAAATAGGAAACATGTCT
CGCATTACTTGAAAAAATCAAGTCAAACTATGCTCTTACTAGGAGTTATGGT
[C/T]CTTTTTATGTCTTAGATGATGATGATCTAGATGAATGCGGACTTGCT
GTAGCTAGATAAATACAATGGGAGTTTGAAGGTGTTTCGTAGCCCTGGAA
ATAGGTATTTCCTGTCAAAACAAGCTTTGTCATTGCCAGCAGACAAAAGC
ATCAGTAACCTTGGTTGATAATCGTCATTTCTTAGGAATAAAGTAGACT
SG13S151

GTATTTCCTGTCAAAACAAGCTTTGTCATTGCCAGCAGACAAAAGC
ATCAGTAACCTTGGTTGATAATCGTCATTTCTTAGGAATAAAGTAGACTGT
AGAATTTTTTTTAGCAGAAAGGAAACCCAAAGATAATTCTAGTGCAAATC
CCTCACTTTATAGAGCAGAAGCTCAAGTCCCAGAGGAACAAGTGGCTTGA
A[C/T]GAACATCAGAATTTTAGGGGCTGGATTTGTACCCTCCTGGTGCCAG
CAGCCCACTTCCCTGCAGGAGGCACTCACCTTCCTTGCACAGGGGTATGA
GTGTGGCCATTTTCCACCCATAATCTCTGTTAGCTCATGTTCAATTGGGTT
CCCATTGAAAGAAAAATGGACCAGTAAGTTGGAGCAGAATCATTCAGATG
SG13S30

SG13S152

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

AATTCCTCCGCATGGTGCTGGCTTTCAAAGGGTGCTTCAGTGCTGTTTGCT GCACGTGCCTTGCAGCCCCACACCCTGCACTCCCGCCCTGCAGAGTCTGG C

GAGGCAAAAGTACTTTGTCGGTTACCTAGGAGAGAACGCAGAG
GTAGGTAACTGGGACTACTAAAGAACTGTGGAGCGATTCCTGATTTTTGA
GCAGGAAGAGTGACAATTCAAAACAGTATTTGACTAGATTCACGGCTCCG
TAGCATCCCCTTGGGTGGGAGGGGGAAGGCTGACTAGGACCTCTGATTCT
TCT[C/T]TCCCTGAGCTTTGAAGGCTCTGAAAATACAGCTGGGGGGACTTG
CCCAGTTTTCTTATTAAGCAATTCCTCCGCATGGTGCTGGCTTTCAAAGGG
TGCTTCAGTGCTGTTTGCTGCACGTGCCTTGCAGCCCCACACCCTGCACTC
CCGCCCTGCAGAGTCTGGCGCTGGAATGACATTTTAGGTCTGGGTTCCCA
G

SG13S403

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CAGCCTTCCACACCATTTTCCTTCCTTGTGTTCACAGCCGCTCTGTCTTTTA CAATAGCACCCCTCTCTAGTGGCTAATGGGCTCTATGATTAGATAGCAŢCC SG13S40

TTTCAGGTGCCAGGAACACGTTCTGTGAGGCTGCTGCCCCAGGTGC
TGACCCCAGCCTTCCACACCATTTTCCTTCTTGTGTTCACAGCCGCTCTGT
CTTTTACAATAGCACCCCTCTCTAGTGGCTAATGGGCTCTATGATTAGATA
GCATCCTTCAGTAGTGATAAAGGCAGTGACATCCTAGGGAGGTCAGCGG[
G/T]TGAAAGCGCTATATCTGGAAAACCTGAGAGCCTGTGAAGCTCAAGGA
CTTGACGGGGTTAGACCGTGAGCCGGGCTGCAGCTGGAAAAAGAATGACT
GTTCTTTCAGCAGATCCTTCCCTGTGCCATCTCTTTCTTCATTCCTCTAG
TGGCATTCTTATTTATCCTCTAAAACCACAATTCCATTATCTCTCCTA
SG13S155

CTGGTCTCCCTCTTTAGGTGATAAGAAGAAGATCCTGCCAGCCCCA
TAACCCGCCATCTGCGCGGGTTCTAGACCCCCTTCTCCTCCCCTCTGGCCG
TGGTAGGCATTACTGATGAATCATGGTGCTCTTTCTTCCAGAGACCAAACC
TGGCCTCGGAATCCTTCTTAACACAGATACTGCTTAACACAACCACTCTG[
A/G]GCAGCTGTCATAAGTAGAAGTAATAGATACTAGAAGAAATGTCTAAG
CCTAATCTAGACCAAAATACGGCCTGATATAGATGCAAGCCAGAGGGGCT
TTATGGTTAAATGCAAGGAGATTTTCAACCCTGCCGTCTAGAAGCTACTTG
CTGAGATCTTCTTCAGTTGGGCCCATCTCCCCCAGGCCTCTCTTCTG
SG13S158

TGGTAGGCATTACTGATGAATCATGGTGCTCTTTCTTCCAGAGACC AAACCTGGCCTCGGAATCCTTCTTAACACAGATACTGCTTAACACAACCA

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CTCTGAGCAGCTGTCATAAGTAGAAGTAATAGATACTAGAAGAAATGTCT AAGCCTAATCTAGACCAAAATACGGCCTGATATAGATGCAAGCCAGAGG GGC[G/T]TTATGGTTAAATGCAAGGAGATTTTCAACCCTGCCGTCTAGAAG CTACTTGCTGAGATCTTCTTCAGTTGGGCCCATCTCCTCCCCAGGCCTCTCT TCTGTTCCTGGGCTATGTCACACTTGGACTCTGCAGACACCTAATGCTCTT GGGACCTGCTTTAGTTCTTGACCTCACCAACCGAGGAGGAATTGCTAGAT SG13S160

CAGAGACCAAACCTGGCCTCGGAATCCTTCTTAACACAGATACTGC
TTAACACAACCACTCTGAGCAGCTGTCATAAGTAGAAGTAATAGATACTA
GAAGAAATGTCTAAGCCTAATCTAGACCAAAATACGGCCTGATATAGATG
CAAGCCAGAGGGGCTTTATGGTTAAATGCAAGGAGATTTTCAACCCTGCC
GT[C/T]TAGAAGCTACTTGCTGAGATCTTCTTCAGTTGGGCCCATCTCCTCC
CCAGGCCTCTCTTCTGTTCCTGGGCTATGTCACACTTGGACTCTGCAGACA
CCTAATGCTCTTGGGACCTGCTTTAGTTCTTGACCTCACCAACCGAGGAGG
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SG13S32

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Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CCATGGAGTCCTGTCCTCTGTTGGGGCTCCTACTGATCCTCTTGGCA
ATATGAAGTTCTCAGCTCAATGGTGGGTGGGCAATGACTGCCAACTCTTG
AGGCCAATGAACTCAGGTTACCCCACTCCTCCTCCTCCTGAGTTGCTCACT
CACTCCTCATTCACTCAACATTGATTCAGTAGATATTTGCTACCTGCTCT[A
/G]TGCCAGGTACCAGGTCAGTTGCTGAAGGAGTAACAGTGAACATGACGG
AGTCTTTGTCCCCAAGGAGACCCAAGGTGTCTCCTAGAGCCAGGGGCACA
TTGCAAGACCAAATATATTCAACTTACCAAAATAATCATAGACCTAGTTCT
CAAAAAGCAAGAAGACTGATTCCTCGTTGTCATTTCTCCTCCTCAGCA
SG13S168

TGGCCTCATTCGTGTGATAAATCTGAGCCACCACGATATTTGACTTTTCACAATTTAATTTATCTGAACCCTCTATTCTCTGGCTAAAAAAATATCCCT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

TACTTGGACTTCTTTATTTTATTTTCAATTCCCTTACCAGCACTAGCAGGGG ACTCTGTACTCATCTGCTGGCGCTGCCATAACAAAGCACTGCAGCCTG[G/T ]GGGGCTCAAACCACAGAATTTATTCTCTCACAGTCCTAGAGGCTAGAAGT CCAAGATCAAAGTGTGGGCAGGGTCGGTTTCTCCTGCAGCCTCTCCCTTG GCTTATAGAGTGCCACCTTCTACCTGTGTCTTCACATCATCACCTCACTGA GCATGTCTGTGTCCAAATCTCCCCTTCTTATAAGACCCCAGTCAT SG13S41

TCTCCTTGGCTTATAGAGTGCCACCTTCTACCTGTGTCTTCACATCA
TCACCTCACTGAGCATGTCTGTGTCCAAATCTCCCCTTCTTATAAGACCCC
AGTCATACTGGATGAGGATCCACCCATATGAGTTCATTTTACCTTAATTAT
CTCTTTAAACACCCTGTCTCCAAATACAGTCCCATTCTGAGGAACTGAG[A/
G]GTAAAGATTCAACATATGAATTTTGGAAGGGACCTAATTCAGCCCACA
ACACCCTCTTTTGGGATGTTTATTTTCCCCCTTAAGGAGCTAGTTAGGATG
TCTTATCTCATGAACATGACTGTGAACAGGAAAACAGGGAGAGAATGAA
GCTGGCCAAGGAACAGGGCTGGTGTCAGCTAGCAGTGCTTTTCTGATGT
SG13S169

CATTTTACCTTAATTATCTCTTTAAACACCCTGTCTCCAAATACAGT CCCATTCTGAGGAACTGAGAGTAAAGATTCAACATATGAATTTTGGAAGG GACCTAATTCAGCCCACAACACCCTCTTTTGGGATGTTTATTTTCCCCCTT AAGGAGCTAGTTAGGATGTCTTATCTCATGAACATGACTGTGAACAGGAA[ A/G]ACAGGGAGAGAATGAAGCTGGCCAAGGAACAGGGCTGGTGTCAGCT AGCAGTGCTTTTCTGATGTGAGTGGGTCCCACAGGGAGCTTGTTAAAATG CAGATTCTGATTCATTAGGTTCCAGAGGGACCTGAGATTTCCCATTTCTGA CAAGTTTCCAGTGTGGGGGCTGATGCTGCTGGTCCACGGACCATACTTTG SG13S404

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GATTCTGATTCATTAGGTTCCAGAGGGACCTGAGATTTCCCATTTCTGACA
AGTTTCCAGTGTGGGGGCTGATGCTGCTGGTCCACGGACCATACTTTGAGT
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GTAGAAAAATTATGAGTTGGCTGGGCGTGGTGGCTCACGCCTGTAATCCC
AGCACTTTGGGAGGCCGAGGTGGCAGATCACCTGAGGTCAGGAGTTCGA
GACCAGCCTGGCCAACATGGTGAAACACCATCTCTACCAAAAATACAAAA

SG13S170

SG13S171

CTCAAAAACAAGAAACAACAACAACAATAACAACAAAAACCA
AGTCTCTCCCTCCACTCAAAAATGCAAGGGCCTGTCTCCCATTGCTGGGTG
CCCAGGTCTCATGAATGTAGATATGAATTATTCCAGTCAGCCTCAGGAGA
ATAGAATGAGCCCTCAGATGCCGAAGCACCTTTCAGATTCCACCGGTTTT
ATCJA/GJGCTCATTTAAACTTCACTTCTAACACAGTCCTGCATTACACACGT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

GTCTGTCGTTATGGGCAGCTGCAGAGAGGGTCTTAATGGTCCTAATGCTC AGTGAGGATGCCCAATGGTCAACAGAACCTGCCATCTTCAGGCCATCAAG GAGCTCTGGAGTTAAGGAAATCATGAGAGCACAGAGGGGCGGGTACAGC AGA SG13S172

AGCACCTTTCAGATTCCACCGGTTTTATCGGCTCATTTAAACTTCAC
TTCTAACACAGTCCTGCATTACACACGTGTCTGTCGTTATGGGCAGCTGCA
GAGAGGGTCTTAATGGTCCTAATGCTCAGTGAGGATGCCCAATGGTCAAC
AGAACCTGCCATCTTCAGGCCATCAAGGAGCTCTGGAGTTAAGGAAATCA
[A/T]GAGAGCACAGAGGGGGGGGTACAGCAGAGCCCTCGTGGTAATGGGT
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TAATAGCTGAGACACTTCTACCCTTCAAATGAAGTAAATGGGAAAATGGA
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SG13S42

CACACGTGTCTGTCGTTATGGGCAGCTGCAGAGAGGGTCTTAATGG
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AGGCCATCAAGGAGCTCTGGAGTTAAGGAAATCATGAGAGCACAGAGGG
GCGGGTACAGCAGAGCCCTCGTGGTAATGGGTTTTGAGGTCTAGGCTCTC
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TTCTACCCTTCAAATGAAGTAAATGGGAAAATGGAGCATTGTTGAGTCCA
GGGAGCTATAATTTAAACCCCATATATCTAAAAGGGGTAACATTTTTGTGT
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SG13S194

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S174

SG13S177

CTGGCGTGGTCTGAGGCCTGAATCCATGTGCCTCATGTATGATGCT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CAGGCAAGAGGATCTCTCAATTCAAGGGAGAGGGCCTGAATGAGCCTTGC
TTTCCAGGCCTGTCTGATGGTCCAGGCTGAAGCCCCTCCTGGCTTGCACTG
CCAGACCTCATCCAGCAGGAGCTCCTTGGCATTGACTGCTTCAGGATAGTT
[C/G]CTTCTGCTCTGAGTGCTCTCTAAAGAGCAGTGCTCTACCATCCAAGC
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TGGAAGTGGCCCCCAGGCCTTCTCATGCCTGGCTTTGGTTTTGGAAGGTGG
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SG13S35

TGCTCTCTAAAGAGCAGTGCTCTACCATCCAAGCTGGGCTTTTCTTT
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/G]GTTTTTTAAAAAATTATTTTTATTGATACACATATTTGTAGGTATTTGTGG
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GGCATTTAGGGTCTTCATCACCTTGATTATCATTTCTATGTGTTGAGAACA
TTTCAAGTTCTCAGTTCCAGCTATTTTGAAAATAGACAGTCCATTT
SG13S179

GATACTTTATTATGTGTGTGGATTGTGTAATGATGAAGTCAGGGCA
TTTAGGGTCTTCATCACCTTGATTATCATTTCTATGTGTTGAGAACATTTCA
AGTTCTCAGTTCCAGCTATTTTGAAATAGACAGTCCATTTTGTTAGCTACA
GTCACCCAACCCGGCTGTCAGACATTGGAACTTACTCCTATTGAACTGT[A/
G]TATTTGTACCCATTCACCAAACTCTCTTTTGGGCTTTCAGTTTTACAACTG
GGATGATCCTGGGAAAACTAAAGTAAATCAGACACCCGACGTGTGAGCTA
GGTTATAATATGCCCAGTGGACCCTGGGGACATCTTAGCTTTCAGAGGTC
ATGCTGTCCAAGCTGACTGTGGGGCTTCCAGAAGGTGGGGAGAGAA
SG13S180

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TCCAGCTATTTTGAAATAGACAGTCCATTTTGTTAGCTACAGTCACCCAAC
CCGGCTGTCAGACATTGGAACTTACTCCTATTGAACTGTGTATTTGTAC[C/
T]CATTCACCAAACTCTCTTTGGGCTTTCAGTTTTACAACTGGGATGATCCT
GGGAAAACTAAAGTAAATCAGACACCCGACGTGTGAGCTAGGTTATAATA
TGCCCAGTGGACCCTGGGGACATCTTAGCTTTCAGAGGTCATGCTGTCCA
AGCTGACTGTGGGGCTTCCAGAAGGTGGGGAGAAATGATGCAAT
SG13S181

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TGTCCAAGCTGACTGTGGGGCTTCCAGAAGGTGGGGAGAGGAAATGATGC
AATGGCCCATCAGAGGCACTACTTGGGGCCTGGGGCCAGAGTGCATGTCT
AAG[C/G]CATTAAGGGGAGGGGAGAGCAGCCTTCATAATTATGAAGAGGA
GTCTCAGGTGCACAGCTTCTGATGAGGGACAGCTTCTAATTGAAGACAGC
ATTGTGTAATGCTCAAACTCCCTGTCTTCAGAGTGCCTGCTGTATCCCACC
ATCAGTTCTGTGACTTCTCCCTAAGCCTCAATTTTGCATGTGTTACATTGG
GA

SG13S182

CCTGCATAGCAAATTCTTGCAAATGTAGGGACTCAAAACAATATAA
ATTTATTATCTGACAGTTTTTCTGGGTCAGAGGTCTTACTAGGCTGTAATC
AGAGGGCAACCAAAGCTGTGATCTCAGCTGAAGCTCAGGATTCTCTCCA
AGCTCACTGGTTGTTGGCAGAATTCAGTTCTTTCCAGTTGGAAGACTAAAG
[C/T]CTACAGTCTTCAGTCTCTAGAAGCCTTTTCTCTGGCACAGGTTTCTCT

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

ACAACATGGCCATTTATGTCTTTAAGGCCAATAGGAGAACATGATTAGCA TATTTTTTAAGTGAACTTTAGACCCTTTTTTAAAGGCCTATCTGATTAGG CCAGGCCCAAGTGAGCTTTAAGTCAACTGATTAGAGATCTTAATTAC SG13S183

TAACCCTAATCCTTTAGGAGGCCAAAACAGCAGGATTGTTTGAGGC

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S188

SG13S406

ATGGGGAAGACGAAGGAGAGCTGCACGTGCAGATATCACGTGT
TGAGGCAGAAGCGAGAGAGAGAGAGGGGAGAGATGCCAGGCTCTTTTTAA
CAACCAGCACTGGGGAAACTAATAGAGTGAGAGCTCACTGACTCCTGAGG
GAGGACATTAATCTATTGATGAGCGACCTGCCTCCATGACCCAAACACCT
CCAA[C/T]GATACCCCACCTCCAACACTGCCACACTAGGGATTAACTTTCA
ACTTGAGATTTAGAGGGGGGAAACTTACAAACTATCGCAGGCACTAATAC
CACTCATGAGGGCTCCACCTTCATGACCTAATCACTTCCTAAAGGCCTTAC
CTCTTAATCTCATCACATTGAGGATTCGATTTCAACTTGAATTTTGGGGGG
AC
SG13S92

TGCCACCTGAAATTAGATCATTTATTTACCCCTTTATTTGTTCAGTT TGCCTTGTCCGTTAGAATATAAGCTTCCAAAGGGCAGGAGCTTTGCCTATA

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

TTGTTAGGCCGGGCATACAATGAGCACTCAAAAAAATATTTGATGAGTGT ATGAAAGAACAGACTGGGTTATGTAATTGTGCCTACTTACCTATATGACC[ A/G]TGTGGTGGGGTTTATGGTGGGTGTGGTGATGGCTATAGGGCTAT AAGCAAATTTGGGACAGGGAGTCTAAGAAATGTTCTTAAATTTTAGTAAG CAAAGCATCCTCTACAGAACCTGTCTTAAAACATGAAAGTTCCTTAGTGCT ACCCCCAGAGGTATGATTTGGTAGGTCAAGGATAGGGCCTGGAAATTCA SG13S36

CCTGTCTTAAAACATGAAAGTTCCTTAGTGCTACCCCCAGAGGTAT
GATTTGGTAGGTCAAGGATAGGGCCTGGAAATTCACATTCTTGTTAAGAT
GTTCTTCATCCGGGGTTTGTTGACCACCTTTTCAGAAGATTTTTGCTCTGTA
GCTGTACTACCCAATGCAGTAGTTCGTAGTCAGTGTGGCTCCTGAGCCCT[
C/T]GAAGTGTAGCTCCTCTGAACTGAGACGTGCTGTAAATGTAAATTGCA
CACCGGAGTTTGAAGAGTTAATACAAAGAAAAAGGAATGCAAAACATCT
CATTAATAATGCTTTACACTGATTACATATTGAAATGTAATCTTGTAGAT
ATAGTGCGTTAAATAAAAATATACTGTTAGGCTTAATTTCACGTCTTTATA
SG13S407

SG13S408

CCTTGTTACGGTCTGAATGCTTGCATCCCTCAAAAATTCATGTGTTG
AAATCCTAACCCCCAAGGTGATGATATTAGGAGGTCGGCCTTTTGAGAGG
TAATTAGGTCATGAAGACAGCATCCTCATGAATGGGATTAGTGTCCTTATA
AAATAGGCCCAAGGGAGCTCATTCACTTTGTCCACCATGTGAGAACACAG
[C/T]GAGAGGGCACCATTTATGCACCAGGAAATGGGCCTTTTCCAGACAAT
CTGTCGGTGCCTGGATCTTGGACTTCACAGCCTCTAGAACTGTGAGAAATT
AATTTGTTTTTTATAAGCCACCAAATCTATGGTTTTTTTATAGAAACCGTA
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SG13S7

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

SG13S411

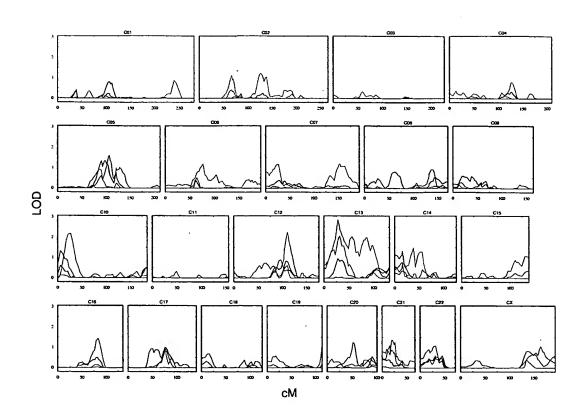
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TCACTTAAACCTGAGAAAGGAGAAGAGGATGCCACCGTGAGGTCCAGGA
C[A/G]TAAAGAGGAAAAAAAAAAAACAGACAAAAAAATCCATATGAAATGAAAA
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GAGCTGTTTGTGTCCAGAGCTGCTTGCTGCACCTGGCGGGATAAACACTG
GTCTAACAGAGGATCCTTGTTTCAAGGAGGCTGCCTTTTATTTGGGGGGAC
AA
SG13S9

Title: Susceptibility Gene for Myocardial...

Inventors: Anna Helgadottir

CCTGGCGGATAAACACTGGTCTAACAGAGGATCCTTGTTTCAAGGAGGC TGCCTTTTATTTGGGGGGACAAAATTGTTCTTGAAAGCTGCTCAGTGGTT SG13S412

SG13S413



**FIG. 9** 

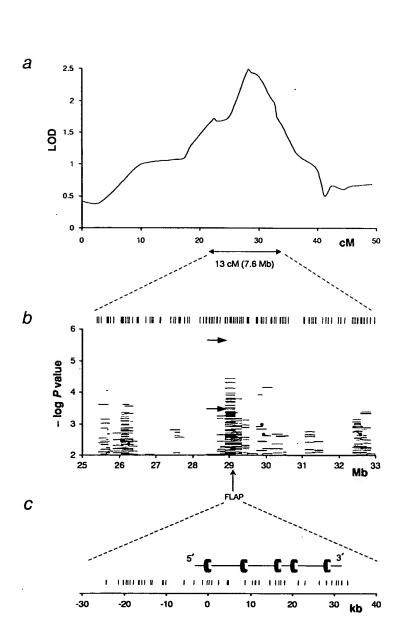
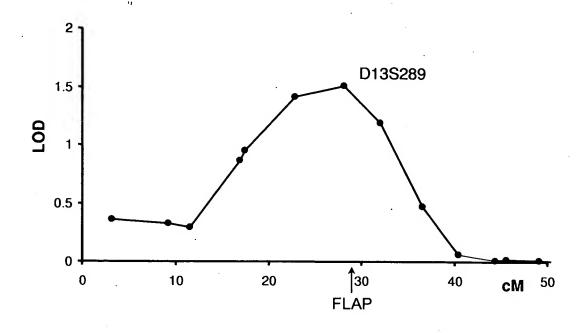
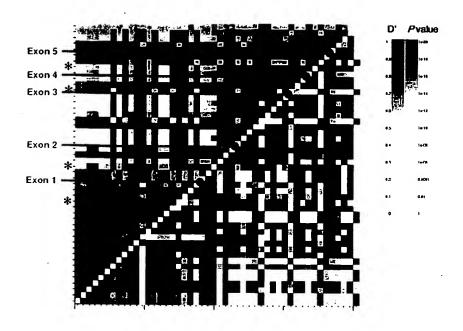


FIG. 10



**FIG.** 11



**FIG. 12**